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OM nucleic - nucleic search, using sw model

Run on: October 24, 2005, 14:55:31 ; Search time 318 Seconds
(without alignments)
8860.593 Million cell updates/sec

Title: US-09-721-183-18

Perfect score: 1722

Sequence: 1 tgcaccagatgactctgaa.....acaaaaaaaaaaaaaa 1722

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.*

- 1: /cgn2_6/ptodata/1/ina/5A_COMB.seq.*
- 2: /cgn2_6/ptodata/1/ina/5B_COMB.seq.*
- 3: /cgn2_6/ptodata/1/ina/6A_COMB.seq.*
- 4: /cgn2_6/ptodata/1/ina/6B_COMB.seq.*
- 5: /cgn2_6/ptodata/1/ina/PTUS_COMB.seq.*
- 6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	1592.2	92.5	1708	4	US-09-949-016-2595 Sequence 2595, Ap
2	1536.8	89.2	1629	4	US-09-949-016-2596 Sequence 2596, Ap
3	1478	85.8	1854	4	US-09-356-806-39 Sequence 39, Appl
4	1395.4	81.0	1832	4	US-09-949-016-2734 Sequence 2734, Ap
5	1375.6	79.9	2092	4	US-09-356-806-7 Sequence 7, Appli
6	1370.8	79.6	2092	4	US-09-949-016-2594 Sequence 2594, Ap
7	1370.8	79.6	2092	4	US-09-949-016-3181 Sequence 3181, Ap
8	1364.4	79.2	2093	4	US-09-949-016-1128 Sequence 1128, Ap
9	1219.2	70.8	2107	3	US-09-180-852-1 Sequence 1, Appli
10	1213.6	70.5	1976	4	US-09-356-806-112 Sequence 112, App
11	1151.8	66.9	1413	3	US-09-813-918-1 Sequence 1, Appli
12	1151.8	66.9	1413	4	US-10-060-311-1 Sequence 1, Appli
13	962.2	55.9	1323	4	US-09-949-016-2735 Sequence 2735, Ap
14	962.2	55.9	1323	4	US-09-949-016-2736 Sequence 2736, Ap
15	754.8	43.8	2966	4	US-09-976-594-241 Sequence 241, App
16	680.2	39.5	18373	4	US-09-949-016-14338 Sequence 14338, A
17	680.2	39.5	18452	4	US-09-949-016-14337 Sequence 14337, A
18	638.2	37.1	1001	4	US-09-671-317-403 Sequence 403, App
19	608.2	35.3	1686	4	US-09-356-806-41 Sequence 41, Appl
20	584.8	34.0	1323	4	US-09-356-806-1 Sequence 1, Appli
21	584.8	34.0	19732	4	US-09-949-016-12870 Sequence 12870, A
22	584.8	34.0	19732	4	US-09-949-016-14923 Sequence 14923, A
23	584.8	34.0	19733	4	US-09-949-016-14336 Sequence 14336, A
24	525.6	30.5	20441	4	US-09-949-016-14476 Sequence 14476, A
25	498.8	29.0	2312	4	US-09-356-806-114 Sequence 114, App
26	497.2	28.9	20599	4	US-09-949-016-14477 Sequence 14477, A
27	497.2	28.9	20599	4	US-09-949-016-14478 Sequence 14478, A

ALIGNMENTS

RESULT 1

US-09-949-016-2595
; Sequence 2595, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2595
; LENGTH: 1708
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2595

Query Match	92.5%	Score 1592.2;	DB 4;	Length 1708;
Best Local Similarity	96.0%	Pred. No. 0;		
Matches 1645;	Conservative 0;	Mismatches 63;	Indels 5;	Gaps 1;
QY	1	TGCACGAGTACTCTGAATCGACTTCAGTTCTTCTGCTGATACATCTCAGTTGTAC	60	Sequence 412, App
Db	1	TGCACGAGTACTCTGAATCGACTTCAGTTCTTCTGCTGATACATCTCAGTTGTAC	60	Sequence 45, Appl
QY	61	TTTAGCTCTGGAGTTGTGAAAAGTCTGGTGTGGCCGACAGAAATACAGCCATTGGATG	120	Sequence 405, App
Db	61	TTTAGCTCTGGAGTTGTGAAAAGTCTGGTGTGGCCGACAGAAATACAGCCATTGGATG	120	Sequence 2, Appli
QY	121	AATATGAAGCAATCTCTGAAGAGCTTTTTCAGAGGTATGATGAGTGTGATCTGGCA	180	Sequence 76, Appl
Db	121	AATATGAAGCAATCTCTGAAGAGCTTTTTCAGAGGTATGATGAGTGTGATCTGGCA	180	Sequence 1, Appli
QY	181	TCTTCAGCTTCCATTCTTTTGTATCCCAATGATGATCCCACTCTTAATTTGAGTTAT	240	Sequence 6, Appli
Db	181	TCTTCAGCTTCCATTCTTTTGTATCCCAATGATGATCCCACTCTTAATTTGAGTTAT	240	Sequence 352, App
QY	241	CCTACATCTTTAACTAAACTGAATTTGAGAATATCATGCAACAGGTTAAGAGATGG	300	Sequence 353, App
Db	241	CCTACATCTTTAACTAAACTGAATTTGAGAATATCATGCAACAGGTTAAGAGATGG	300	Sequence 354, App
QY	301	TCAGACATTCGAAAAGATAGCTTTTGGTTATATTTTTTCAAGAACAGAAATCCTGTGG	360	Sequence 118, App


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Db 302 TCAGACATTCACAAAGATACATTTGGTTATATTTTTCACAAAGAACAAAGAAATCGCTGTAG 361
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Db 362 GAATATTATACATATTTAGAAATCTCTGTAAGATGTAGTTTCAATAAAGAAATCTATG 421
Qy 421 AAAAACTACAAGAGTCAAGATTTGACATCGTTTTTTCAGATGCTGTGTTTTTCCCTCTGGT 480
Db 422 AAAAACTAAGAGTCAAGATTTGACATCGTTTTTTCAGATGCTGTGTTTTTCCCTCTGGT 481
Qy 481 GAGCTGCTGCTGCTGCTACTTAACATACAGTTTGTGTACAGTCTCCGCTTTACTCTGGC 540
Db 482 GAGCTGCTGCTGCTGCTACTTAACATACAGTTTGTGTACAGTCTCCGCTTTACTCTGGC 541
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Db 542 TACACAGTTGAAAGGACAGTGGAGGACTGATTTTCCCTCTCTACATACCTATTTGTT 601
Qy 601 ATGTCAAAATTAAGTGTCAAAATGACATTTTCATGGAGAGGGTAAATAATATGATCTATGTG 660
Db 602 ATGTCAAAATTAAGTGTCAAAATGACATTTTCATGGAGAGGGTAAATAATATGATCTATGTG 661
Qy 661 CTTTATTTTGAATTTGGTTCCAAATGCTCGATATGAAGAGTGGGATCAGTTTACAGT 720
Db 662 ATTATTTTGAATTTGGTTCCAAATATGTGATATGAAGAGTGGGATCAGTTTACAGT 721
Qy 721 GAAGTTTATAGGAGACCCACTACCTATTTTGAGACATGCGAAAGCTGACATATGCTT 780
Db 722 GAAGTTTATAGGAGACCCACTACCTATTTTGAGACATGCGAAAGCTGACATATGCTT 781
Qy 781 ATGCGAAATCTCTGAGTTTTCAATTTTCCCTCATCTTCTTACCACAGTTGATTTTGT 840
Db 782 ATGCGAAATCTCTGAGTTTTCAATTTTCCCTCATCTTCTTACCACAGTTGATTTTGT 841
Qy 841 GGAGGATTCATCTGCAAACTCGCAAAACCCCTACCTAAGGAATGGAGGAGTTGTACAG 900
Db 842 GGAGGATTCATCTGCAAACTCGCAAAACCCCTACCTAAGGAATGGAGGAGTTGTACAG 901
Qy 901 AGCTCTCGAGAAATGTGTGTGTTCTCTGCGGTGAGTAAAGTAAACATGACA 960
Db 902 AGCTCTCGAGAAATGTGTGTGTTCTCTGCGGTGAGTAAAGTAAACATGACA 961
Qy 961 GCAGAAAGGCGCAATGTAAATGTCAACAGCCCTTGCCCAAGATCCCAAAAAGTTCTGTG 1020
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Db 1142 AGTGGCATCTATGAGGCAATCTACCATGGGATCCCTATGTGGGCAATCCATTTGTTT 1201
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Db 1202 GATCAACCTGATATGATGCTTCAATGAAGGCAAGGGAGCAGCTGTAGATTGGACTTC 1261
Qy 1261 AACCAATGTGAGTACAGACCTCTGAATGCTGAGTAAAGTAAATTAATGATCCCTTTA 1320
Db 1262 CACCAATGTGAGTACAGACCTCTGAATGCTGAGTAAAGTAAATTAATGATCCCTTTA 1321
Qy 1321 TATAAAGAGATATTTATGAATTTATCAAGAAATCAACATGATCAACAGTAAAGCCCTG 1380
Db 1322 TATAAAGAGATATTTATGAATTTATCAAGAAATCAACATGATCAACAGTAAAGCCCTG 1381
Qy 1381 GATCGAGAGTCTTCTGGAATTTGTGATGCCCCCAAGAGGCGCAACACCTTCGA 1440
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Db 1382 GATCGAGAGTCTTCTGGAATTTGATCGGCCACAAAGAGGCCAAACACCTTCGA 1441
Qy 1441 GTTGACAGCCCATGACCTCACCTGTTCCAGTACCACCTCTTTGGATGTGATTTGGTTTCTG 1500
Db 1442 GTTGACAGCCCGTACCTCACCTGTTCCAGTACCACCTCTTTGGATGTGATTTGGTTTCTG 1501
Qy 1501 CTGGCCTGTGTGGCAACTGTGATATTTATCATCAAAAGTTTGTCTGTTTGTCTG 1560
Db 1502 CTGGCCTGTGTGGCAACTGTGATATTTATCATCAAAAGTGTGCTGTTTGTCTGTTTCTG 1561
Qy 1561 AGTTTCTAGTAAAGGAGAGGAGGAAAGAGATTTAGTTATGCTGTGACATTTGAAGCT 1620
Db 1562 AGTTTCTAGTAAAGGAGTGAAGAGGAAAGGATTTAGTTATGCTCGACATTTGAAGCT 1621
Qy 1621 GGAAAAACC 1628
Db 1622 GGAAAAACC 1629

RESULT 3
US-09-356-806-39
; Sequence 39, Application US/09356806
; Patent No. 6586175
; GENERAL INFORMATION:
; APPLICANT: Penny, Laura
; APPLICANT: Galvin, Margaret
; APPLICANT: Miller, Andrew
; APPLICANT: Reidy, Michael
; TITLE OF INVENTION: Genotyping Human
; TITLE OF INVENTION: UDP-Glucuronosyltransferase 2B4 (UGT2B4), 2B7 (UGT2B7) and
; FILE OF INVENTION: 2B15 (UGT2B15) Genes
; FILE REFERENCE: SEQ-22PRV2
; CURRENT APPLICATION NUMBER: US/09/356,806
; CURRENT FILING DATE: 1999-07-20
; NUMBER OF SEQ ID NOS: 164
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 39
; LENGTH: 1854
; TYPE: DNA
; ORGANISM: H. sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (15)...(1584)
US-09-356-806-39

Query Match 85.8%; Score 1478; DB 4; Length 1854;
Best Local Similarity 91.6%; Pred. No. 0;
Matches 1577; Conservative 0; Mismatches 140; Indels 5; Gaps 1;

Qy 1 TGCACCAAGGATGCTCTGAAATGGACTTCAGTTCTTCTGCTGATPACATCTCAGTTGTAC 60
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Qy 61 TTTAGTCTCTGGAGTTGTGAAAAGTCTGTTGGGCGCCAGAGATACAGCCATTGGATG 120
Db 66 TTTAGTCTCTGGAGTTGTGAAAAGTCTGTTGGGCGAGAGATACAGCCATTGGATG 125
Qy 121 AATATGAAGCAATCTCCGAAAGAGCTTGTTCAGAGAGGTGATGAGTGTGACTGTGCA 180
Db 126 AATATAAGACATCTCTGGATGAGCTTATTCAGAGAGGTGATGAGTGTGACTGTGCA 185
Qy 181 TCTTCAGTCTCCATCTTTTGTATCCCAATGATGCTCCACTCTTAAATTTGAAGTTTAT 240
Db 186 TCTTCAGTCTCCATCTTTTGTATCCCAACACTCATCCGCTCTTAAATTTGAATTTAT 245
Qy 241 CCTACATCTTTAATAACTGAATTTGAGATATCATGCAACAGGTTTAAGAGATGG 300
Db 246 CCCACATCTTTAATAACTGAATTTGAGATATTCATGCAACAGATTTAAGAGATGG 305
Qy 301 TCAGACATTCGAAAAGATAGCTTTTGGTTATATTTTTCACAAAGAACAAAGAAATCCTGTGG 360
Db 306 TCAGACCTTCGAAAAGATACATTTTGGTTATATTTTTCACAAAGTACAGGAATCATGTCA 365
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QY 421 AAAAACTACAAGAGTCAAGATTGTGACATCGTTTTTGGCAGATGCTGTTTTTCCCTGTGGT 480
Db 426 AAAAAAGTACAAGAGTCAAGATTGTGACATCGTTTTTGGCAGATGCTATTTTTTCCCTGTAGT 485
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Db 606 ATGTCAAAATTAACTGATCAATGACTTTCATCGGAGGGTAAAAATATGATCTATGTG 665
QY 661 CTTTATTTTGGCTTTGGTTCCAAATGCTCTGATATGAAGAAGTGGATCAGTTTTTACAGT 720
Db 666 CTTTACTTTGACTTTTGGTTCCAAATGCTCTGATATGAAGAAGTGGATCAGTTTTTATAGT 725
QY 721 GAAGTTTATAGGAAGACCCACTACTTTATTTTGACACAATGGGAAAAGCTGACATATGGCTT 780
Db 726 GAAGTTTCTAGGAAGACCCACTACTATTTCTGAGACAATGGGAAAAGCTGACATATGGCTT 785
QY 781 ATGCGAAACTCTGGAGTTTTCATTTCTCTCATCTCAATTTCTTACCAACGTTGATTTGTT 840
Db 786 ATTCGAAACTCTCTGGAAATTTTCAGTTTCTCATATCCACTCTTACCAAAATGTGATTTGTT 845
QY 841 GGAGGATTCACATGCAAACTGCAAACTGCAAACTGCAAACTGCAAACTGCAAACTGCAAA 900
Db 846 GGAGGACTCACTGCAAACTGCAAACTGCAAACTGCAAACTGCAAACTGCAAACTGCAAA 905
QY 901 AGCTCTGGAGAAATAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 960
Db 906 AGCTCTGGAGAAATAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 965
QY 961 GCAGAAAGGCCAATGTAATTTGCAAAAGCCCTTGGCCAAAGATCCCAAAAGGTTCTGTGG 1020
Db 966 GAAGAAAGGCCCAACGTAATTTGCAAAAGCCCTTGGCCCAAGATCCCAAAAGGTTCTGTGG 1025
QY 1021 AGATTTTACGGGAATAAACCAGATGCTTAGGTCTCAATACCTCGGCTGTACAGTGGATA 1080
Db 1026 AGATTTTACGGGAATAAACCAGATGCTTAGGTCTCAATACCTCGGCTGTACAGTGGATA 1085
QY 1081 CCCAGAAATGACCTTCTAGGTCTATCCAAAAACCAGAGCTTTTATACTCATGTGTGGAGCC 1140
Db 1086 CCCAGAAATGACCTTCTAGGTCTATCCAAAGACAGAGCTTTTATACTCATGTGTGGAGCC 1145
QY 1141 AATGGCATCTATAGGCAATCTACCAATGGGATCCCTATGGTGGGCAATTCATTTGTTTTT 1200
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QY 1201 GATCACTCTGATAAATTCCTCATGTAAGGCCCAAGGAGCAGCTGTTAGATTGGATTC 1260
Db 1206 GATCACTCTGATAAATTCCTCATGTAAGGCCCAAGGAGCAGCTGTTAGATTGGATTC 1265
QY 1261 AACACAATCTCGAGTACAGACCTGCTGAATGCACTGAAGACAGTAATTAATGATCCTTTA 1320
Db 1266 AACACAATCTCGAGTACAGCTTGTGTAATGCACTGAAGAGAGTAATTAATGATCCTTTCA 1325
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Db 1326 TATAAGAGAAATATTATGAATTAATCAAGAAATCAACATGATCAACAGTAAGCCCTG 1385
QY 1381 GATCGAGAGCTCTCTGGATTGAAATTTGTATGCCCCCAAGGAGCCCAACACCTTCCA 1440
Db 1386 GATCGAGAGCTCTCTGGATTGAAATTTGTATGCCCCCAAGGAGCCCAACACCTTCCG 1445
QY 1441 GTTGACGCCCATGACCTCACCTGGTTCCAGTACCACCTCTTTGGATGTGATGGTTTCTG 1500
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QY 1561 AAGTTTGTAGAAAAAGGGAAGGAAAGAGATTAGTTATGTCTGACATTTGAAGCT 1620
Db 1566 AAGTTTGTAGAAAAAGGGAAGGAAAGAGATTAGTTATGTCTGACATTTGAAGCT 1625
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Db 1626 GGAAAAACCATAGATAGGAGACTTTCAGTTTATTTCCAGCAAG-----AAAGATTGTGAT 1680
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Db 1681 GCAAGATTTCTTTCTCTGTGAGACAAAAAAGAAAAAAGAAAAA 1722

RESULT 4
US-09-949-016-2734
; Sequence 2734, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2734
; LENGTH: 1832
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(1832)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-2734

Query Match 81.0%; Score 1395.4; DB 4; Length 1832;
Best Local Similarity 89.2%; Pred. No. 0;
Matches 1537; Conservative 0; Mismatches 156; Indels 30; Gaps 3;

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Db 6 TGCACCAGGATGCTGTGAAATGGACTTCAGTTTTCAGTTTTCAGTTTTCAGTTTTCAGTTTTC 65
QY 61 TTTAGCTCTGGAGTTGTGGAAAAAGTGTGTTGGCCCGCAGAAATACAGCCATTGGATG 120
Db 66 TTTAGCTCTGGAAATTTGTGAAAGGTGTGTTGGCCGAGCAGAAATACAGCCATTGGATG 125
QY 121 AATATTGAGACAACTCCTGAAAGAGCTTGTTCAGAGAGGTCATGAGTGACTGTACTGGCA 180
Db 126 AATATAAGACAACTCCTGGATGAGCTTATTCAGAGGTCATGAGTGACTGTACTGGCA 185
QY 181 TCTTCAGCTTCCATCTTTTGTATCCCAATGATGATCCACTCTTTAAATTTGAAGTTTAT 240
Db 186 TCTTCAGCTTCCATCTTTTGTATCCCAACTCATCGCTCTTTAAATTTGAATTTAT 245
QY 241 CCTACATCTTTAACTTAAACTGAAATTTGAGAATATCATCATCAACAGGTTAAGATGG 300
Db 246 CCCACATCTTTA-----ANNNNNNNNNNNNNNNNNTTGG 281
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Db 282 TCAGACCTTCGAAAGATACATTTTGGTTATATTTTTTCAAGGTACAGGGAATCATGTC 341
Qy 360 GGAATTATGACATATTTAGAACTTCTGTAAAGATGTAGTTTCAAAATAGAAAGTTAT 419
Db 342 AATATTGGTGCATAAATAGAAAGTTCTGTAAAGATGTAGTTTCAAAATAGAAATTTAT 401
Qy 420 GAAAAAATCAAGAGTCAAGATTGACATCGTTTTCGAGATGCTGTTTTCCCTGTGG 479
Db 402 GAAAAAGTACAAGAGTCAAGATTGACATCGTTTTCGAGATGCTATTTTTCCCTGTAG 461
Qy 480 TGAGCTGCTGCTGCGTACTTAACATACACGTTTGTGTACAGTCTCCGCTTTACTCCTGG 539
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Qy 540 CTACACAAATTGAAAGGCACAGTGGAGGACTGATTTTCCCTCCTTCCCTACATACCTATTGT 599
Db 522 CTACACATTTTGAAGAGCATAGTGGAGGATTTATTTTCCCTCCTTCCCTACGTAAGCTTGT 581
Qy 600 TATGTCAAAATTAAGTGCATCAAAATGACTTTTCATGGAGAGGTTAAAAATATGATCTATGT 659
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Qy 660 GCTTTATTTGACTTTTGGTTTCCAAATGTCTGATATGAAGAGTGGATCAGTTTTCACG 719
Db 642 GCTTTACTTTGACTTTTGGTTTTCGAAATATTTGACATGAAGAGTGGATCAGTTTTCATAG 701
Qy 720 TGAAGTTTGAAGAGACCCACTACCTTATTTGAGACAAATGGGAAAGCTGACATATGGCT 779
Db 702 TGAAGTTTGAAGAGACCCACTACCTTATTTGAGACAAATGGGAAAGCTGACATATGGCT 761
Qy 780 TATCGGAACTCTGAGGAGTTTCAATTTTCTCATCCATTTCTACCAACGTTGATTTTGT 839
Db 762 TATTCGAACTCTGAGGAGTTTCAATTTTCTCATCCATTTCTACCAACGTTGATTTTGT 821
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Db 822 TGGAGGATTCACCTGCAAACTGCGAAACCCCTACCTAAGGAAATGAGGAGTTTGTACA 881
Qy 900 GAGCTCTGGAGAAATGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGT 959
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Qy 960 AGCAGAAAGGCGCAATGTAAATTGCAACAGCCCTTGCCAAAGTCCCAAAAGGTTCTGTG 1019
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Qy 1020 GAGATTTGACGGGAATAAACACAGATGCTTAGGTCTCAATCTCGGCTGTACAGTGGAT 1079
Db 1002 GAGATTTGATGGGAATAAACACAGATGCTTAGGTCTCAATCTCGGCTGTATAGTGGAT 1061
Qy 1080 ACCCAGAAATGACCTTCTAGGTCTATCCAAACCCAGAGCTTTTATACTCATGTGGAGC 1139
Db 1062 ACCCAGAAATGACCTTCTAGGTCTATCCAAACCCAGAGCTTTTATACTCATGTGGAGC 1121
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Qy 1200 TGATCAACCTGATTAACATTTGCTACATGAAGGCCAAGGGAGCAGCTGTTAGATTTGACTT 1259
Db 1182 CGATCAACCTGATTAACATTTGCTACATGAAGGCCAAGGGAGCAGCTGTTAGATTTGACTT 1241
Qy 1260 CAACACAAATGTCGAGTACAGACCTGCTGAATGCACTGAAGCAGTAATTAATGATCTTTT 1319
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Qy 1320 ATATAAGAGAAATTTATGAATTTATCAAGAAATTCACATGATCAACAGTAAAGCCCTT 1379
Db 1302 ATATAAGAGAAATTTATGAATTTATCAAGAAATTCACATGATCAACAGTAAAGCCCTT 1361
Qy 1380 GGATCGAGCAGTCTTCTGGATTGAATTTGTGTCATGCCCCCAAGAGGCCAAACACCTTCG 1439
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Db 1362 GGATCGAGCAGTCTTCTGGATTGAAATTTGTCATGGCCCAAAAGGAGCTAAACACCTTCG 1421
Qy 1440 AGTTGAGCCCATGACCTCACCTGGTTCAGTACCACCTCTTTGGATGTGATTCGGTTCT 1499
Db 1422 GGTTCAGGCCACGACCTCACCTGGTTCAGTACCACCTCTTTGGATGTGATTCGGTTCT 1481
Qy 1500 GCTGGGCTGTGTGGCACTGTGATATTTATCATCAAAAGTTTGTCTGTTTGTCTG 1559
Db 1482 GCTGGTCTGTGTGGCACTGTGATATTTATCGTCACAAATGTTGTCTGTTTGTCTG 1541
Qy 1560 GAAGTTTGTAGAAAAAGGGAAGGAAAGAGATTAGTTATGTCATGATTTGAAGC 1619
Db 1542 GAAGTTTGTAGAAAAAGGGAAGGGAAGGAAATGATTTAGTTATATCTGAGATTGAAGC 1601
Qy 1620 TGGAAACACAGATAGATAGGACAACTTCAGTTTATTTCCAGCAAGAAAGAAAGTTGTA 1679
Db 1602 TGGAAACCTGATAGGTGAGACTACTTCAGTTTATTTCCAGCAAG-----AAAGATTGTGA 1656
Qy 1680 TGAAGATTTCCTTCTTCTGTCACAAAAAAGGAAAAAAGGAAAAA 1722
Db 1657 TGAAGATTTCCTTCTTCTGTCACAAAAAAGGAAAAAAGGAAAAA 1699

RESULT 5
US-09-356-806-7
; Sequence 7, Application US/09356806
; Patent No. 6586175
; GENERAL INFORMATION:
; APPLICANT: Penny, Laura
; APPLICANT: Galvin, Margaret
; APPLICANT: Miller, Andrew
; APPLICANT: Reidy, Michael
; TITLE OF INVENTION: Genotyping Human
; TITLE OF INVENTION: UDP-Glucuronosyltransferase 2B4 (UCT2B4), 2B7 (UCT2B7) and
; FILE REFERENCE: SEQ-22PRV2
; CURRENT APPLICATION NUMBER: US/09/356,806
; CURRENT FILING DATE: 1999-07-20
; NUMBER OF SEQ ID NOS: 164
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 2092
; TYPE: DNA
; ORGANISM: H. sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (38)...(1621)
; US-09-356-806-7

Query Match 79.9%; Score 1375.6; DB 4; Length 2092;
Best Local Similarity 88.7%; Pred. No. 0;
Matches 1525; Conservative 0; Mismatches 189; Indels 6; Gaps 3;

Qy 1 TGACACGAGATGACTCTGAAATGGACTTCAGTTCTTCTGCTGATACATCTCAGTTGTTC 60
Db 29 TGCATCAGGATGCTATGAAATGGACTTCAGTCTTCTGCTGATACAGCTGAGCTGTTC 88
Qy 61 TTTAGCTCTGGGAGTTCTGCAAAAGTCTGTTGGCCCGCAGAAATACAGCCATTGGATG 120
Db 89 TTTAGCTCTGGGAGTTCTGCAAAAGTCTGTTGGCCCGCAGAAATACAGCCATTGGATG 148
Qy 121 AATATGAAGACAATTCCTGAAAGAGCTTGTTCAGAGAGGTGATGAGGTGACTGTACTGGCA 180
Db 149 AATATAAGACAATTCCTGGAATGAATGTCAGAGAGGTGATGAGGTGACTGTATTGGCA 208
Qy 181 TCTTCAGCTTCCATCTCTTTTGTATCCCAATGATGTCATCCACTCTTAATTTGAAGTTTAT 240
Db 209 TCTTCAGCTTCCATCTCTTTTGTATCCCAATGATGTCATCCACTCTTAATTTGAAGTTTAT 268
Qy 241 CCTACATCTTTAACTAAACTGAATTTGAGAATATCATCATGCAACAGGTTTAAGAGATGG 300
Db 269 CCTGTATCTTTAACTAAACTGAGTTTGAAGATATTTATCAAGCAGCTGGTTTAAGAGATGG 328
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QY 301 TCAGACATTCGAAAGATAGCTTTTGGTTATATTTTTCACAGAAACAGAAATCCTGTGG 360
Db 329 GCAGAACTTCCAAAAGACACATTTTGGTCATATTTTTCACAAAGTACAAGAAATCATGTGG 388
QY 361 GAATTATATGACATATTTAGAACTTCTGTAAGATGTAGTTTCAATTAAGAAAGTTATG 420
Db 389 ACATTTAATGACATATCTAGAAAGTTCTGTAGGATATAGTTTCAATTAAGAAACTTATG 448
QY 421 AAAAACTACAAGATCAAGATTGACATCGTTTTTTCAGAGATCGTTTTTCCCTGTGGT 480
Db 449 AAGAACTACAGGAGTCAAGATTGTATGTGTTCTTTCGAGATCGTTTTTCCCTTTGGT 508
QY 481 GAGCTGCTGGCTGGCTACTTAACATACGGTTTTGTGTACAGTCTCCGCTTATCTCTGGC 540
Db 509 GAGCTGCTGGCGAGTTACTTAAAAATACCCTTTTGTCTACAGCCTCCGCTTCTCTCTGGC 568
QY 541 TACACAATTGAAAGGCACAGTGGAGACTGATTTTCCCTCTTCCCTACATACCTATTGTT 600
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QY 601 ATGTCAAAATTAAAGTCAATCAATGATTTTCATGGAGAGGTTAAAAATATGATCTATGTG 660
Db 629 ATGTCAGAACTAAGTGACCAAAATGACTTTTCATAGAGAGGTTAAAAATATGATCTATGTG 688
QY 661 CTTTATTTTGTGCTTGGTTCCAAATGCTCTGATATCAAGAAAGTGGATCAGTTTTCACGT 720
Db 689 CTTTATTTTGAATTTTGGTTTCCAAATATTTTGACATGAAGAAAGTGGATCAGTTTTCACGT 748
QY 721 GAAGTTTATAGGAAGCCCACTAGCTTTATTTTGACACAATGGGAAAGCTGACATATGGCTT 780
Db 749 GAAGTTCTAGGAAGCCCACTAGCTTTATCTGAGACAATGGCAAAAGCTGACATATGGCTT 808
QY 781 ATGCGAACTCTGGAGTTTTCAAATTTCCCTCATPCCATTTTACCAACGTTGATTTGTT 840
Db 809 ATTCGAAACTACTGGGATTTTCAATTTTCTCTCACCCACTCTTACCAAAATGTGAGTTGCTT 868
QY 841 GGAGGATTCACATGCAAACTGCAAAACCCCTACCTAAGGAATGAGGAGTTGTGTACAG 900
Db 869 GGAGGATTCACATGCAAACTGCAAAACCCCTACCGAAGCAATGGAAGAGTTGTGCCAG 928
QY 901 AGCTCTGGAGAAATGGTGTGTGTGTGTTTCTCTGGGGTCAAGTATAGTAAACATGACA 960
Db 929 AGCTCTGGAGAAATGGTGTGTGTGTGTTTCTCTGGGGTCAAGTATAGTAAACATGACA 988
QY 961 CGAAGAAAGGCCAATGTAAATTGCAAAAGCCCTTGGCCAAGATCCCAAAAAGTTCTGTGG 1020
Db 989 GAAGAAAGGCCCAATGTAAATTGCAATCAGCCCTTGGCCAAGATCCCAAAAAGTTCTGTGG 1048
QY 1021 AGATTTGACGGGAATAAACAGATGCTTAGGTCTCAATACTCGGCTGTACAGTGGATA 1080
Db 1049 AGATTTGATGGGAATAAACAGATGCTTAGGTCTCAATACTCGGCTGTACAGTGGATA 1108
QY 1081 CCCAGAATGACCTTCTAGGTCTATCCAAAACACAGAGCTTTTATACTCATGTGGAGCC 1140
Db 1109 CCCAGAGATGATCTTCTGTGTACCCCAAAAACACAGAGCTTTTATACTCATGTGGAGCC 1168
QY 1141 AATGGCATCTATAGGGAATCTACCAATGGGATCCCTTATGGTGGGCAATTCATTTGTTTTT 1200
Db 1169 AATGGCATCTATAGGGAATCTACCAATGGGATCCCTTATGGTGGGCGTTCCATTTGTTTGA 1228
QY 1201 GATCAACCTGATAAATCTCATGATGAAGGCCAAGGGAGGAGCTGTTAGATTTGGACTTC 1260
Db 1229 GATCAACCTGATAAATCTCATGATGAAGGCCAAGGGAGGAGCTGTTAGTTTGGACTTC 1288
QY 1261 AACCAATGTCGAGTACAGACCTGTGATGCACTGAAGACAGTAATTAATGATCCTTTA 1320
Db 1289 CACACAATGTCGAGTACAGACTTACTCAATGCACTGAAGACAGTAATTAATGATCCTTTA 1348
QY 1321 TATAAGAGATATTTATGAAATTTATCAAGAAATTCACATGATCAACAGGTAAGCCCTG 1380
Db 1349 TATAAGAGATATGCTATGAAATTTATCAAGAAATTCATCATGATCAACAGGTAAGCCCTT 1408
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QY 1381 GATCAGCAGTCTTCTGGATTGAATTTGTCTATGCCCAAGAGGCCAAACACCTTCGA 1440
Db 1409 GATCAGCAGTCTTCTGGATTGAATTTGTCTATGCCCAAGAGGCCAAAGCACCTTCGG 1468
QY 1441 GTTGAGCCCATGACCTCACCTGGTTCCAGTACCACCTCTTTGGATGTGATTTGGTTTCTG 1500
Db 1469 GTTGAGCCCATGACCTCACCTGGTTCCAGTACCACCTCTTTGGATGTGATTTGGTTTCTG 1528
QY 1501 CTGGCTGTGTGGCAACTGTGATATTTATCATCAAAAGTTTGTCTGTGTTTGTCTG 1560
Db 1529 CTGGCTGTGTGGCAACTGTGATATTTATCATCACAAAA--ATGTCTGTTTGTGTCTG 1585
QY 1561 AAGTTTGTAGAAAAGGGAAGGAAAGAGATTACTTATGTCTGACATTTGAAGCT 1620
Db 1586 AAGTTTGTAGAACAGGAAAGGGAAGAGATTAAATTACGTCTGAGGCTGGAAGCT 1645
QY 1621 GGAAACACAGATAGATAGGACAACTTCAGTTTATTTCCAGCAAGAAAGAAAGATTGTTAT 1680
Db 1646 GGAACACCAATAAAT-GAACTCCTTTAGTTTATTTACAACAAGAA--GACGTTGTGATAC 1702
QY 1681 GCAAGATTTCTTCTCTCTGTGACAAAAAAGAAAAA 1720
Db 1703 AAGAGATTCCTTCTCTTGTGACAAAAACATCTTTCAAAA 1742
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RESULT 6

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US-09-949-016-2594
; Sequence 2594, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2594
; LENGTH: 2092
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2594
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Query Match 79.6%; Score 1370.8; DB 4; Length 2092;
Best Local Similarity 88.5%; Pred. No. 0;
Matches 1522; Conservative 0; Mismatches 192; Indels 6; Gaps 3;

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QY 1 TGCACAGAGTACCTGAAATGGACTTCAGTTCTTCTGCTGATACATCTCAGTTGTTAC 60
Db 29 TGCATCAGAGATCTATGAATGGACTTCAGCTCTTCTGCTGATACAGCTGAGCTTTAC 88
QY 61 TTTAGCTCTGGAGTTGTGAAAAGTGTGTTGGGCCGAGAAATACAGCAATTTGGATG 120
Db 89 TTTAGCTCTGGAGTTGTGAAAAGTGTGTTGGGCCCAAGAAATTCAGCCACTGGATG 148
QY 121 AATATGACAGCAATCTCTGAAGAGCTTGTTCAGAGAGTTCATGAGGTGACTGTACTGGCA 180
Db 149 AATATAAGACAAATCCTGGATGAATTTGTCCAGAGAGTTCATGAGGTGACTGTATTGGGA 208
QY 181 TCTTCAGCTTCCATTTCTTTTGTATCCCAATGTATGCATCTTAAATTTGAAGTTTAT 240
Db 209 TCTTCAGCTTCCATTTCTTTTGTATCCCAACAGCCCATCTACTCTTAAATTTGAAGTTTAT 268
QY 241 CCTCATCTTTAACTAAACTGAAATTTTGAGAAATATCATCATGCAACAGGTTTAAGAGATGG 300
Db 269 CCTGTATCTTTAACTAAACTGAGTTTGAGGATATTTATCAAGCAGCTGTTTAAGAGATGG 328
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QY 301 TCAGACATTCGAAAGATAGCTTTTGGTTATATATTTTTCACAGAACCAAGAAATCCCTGTGG 360
Db 329 GCAGAACTTCAAAAGACACATTTTGGTCATATTTTTCACAGTACAAAGAAATCAATGTGG 388
QY 361 GAATATATGACATATTTAGAACTCTCTGTAAGATAGTTTCAAATAAGAAAGTTATG 420
Db 389 ACATTTAATGACATATCTAGAAAGTCTGTAAGGATATAGTTTCAAATAAGAAATATG 448
QY 421 AAAAAGCTACAGAGTCAAGATTTGACATCGTTTTCAGATGCTGTTTTCCTGTGGT 480
Db 449 AAGAACTACAGGAGTCAAGATTTGATGTTTCTTCAGATGCTGTTTTCCTGTGGT 508
QY 481 GAGCTGCTGGCTGGCTACTTAAACATACGGTTTGTGTACAGTCTCCGCTTTACTTCCCTGGC 540
Db 509 GAGCTGCTGGCCGAGTTACTTAAATACCTTTGTCTACAGGCTCGCTTCTCTCTGGC 568
QY 541 TACAAATTTAAAGGACAGTGGAGGACTGATTTTCCCTCTCTCTACATACCTATTTGTT 600
Db 569 TACCAATTTAAAGACATAGTGGAGGACTTCTGTTCCTCTCTCTATGTGCTGTGTT 628
QY 601 ATGTCAAAATTAAGTGATCAAACTTTTATGAGAGGGTAAATAATATGATCTATGTG 660
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QY 661 CTTTATTTTGAATTTTGGTTCCAAATGCTGTGATATGAAGAGTGGGATCAGTTTACAGT 720
Db 689 CTTTATTTTGAATTTTGGTTCCAAATATTTGACATGAGAGTGGGATCAGTTTACAGT 748
QY 721 GAAGTTTGAAGAGACCCACTACCTTATTTGAGCAATGGGAAAGCTGACATATGCTT 780
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QY 781 ATGCAAACTCTGGAGTTTTCATTTTCTCATCTCATCTTACCACACGTTGATTTGTT 840
Db 809 ATTGCAAACTACTGGGATTTTTCATTTTCTCACCCACTCTTACCACAAATGTTGAGTTGCTT 868
QY 841 GGAGGATTTCAACTTCAAACTCGCAACCCCTACTTAAGGAAATGGAGGAGTTTGTACAG 900
Db 869 GGAGGATCTCACTGCAAACTCGCAACCCCTACTCGAGAGGAAATGGAGGAGTTTGTCCAG 928
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Db 989 GAAGAAAGGCGCAATGTAATTTGCAATCAGCCCTTCCAGAGATCCCAAAAGGTTCTGTGG 1048
QY 1021 AGATTTGACGGGAATAAACACAGATGCTTAGTGTCTCAATCTCGGCTGTACAAGTGGATA 1080
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QY 1081 CCCAGAAATGACCTTCTAGGTATCCAAAACCCAGAGCTTTTATACTCATGTGGGAGCC 1140
Db 1109 CCCAGAAATGATCTTCTTGGTCAACCAAAACCCAGAGCTTTTATACTCATGTGGGAGCC 1168
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Db 1169 AATGGCATCTAAGGCAATCTCTCTAGAAATCCCTATGTGGGCGTTTCCATGTTTGTGCA 1228
QY 1201 GATCAACTGATAACATTTGCTACATGAAGCCCAAGGAGGAGCGTGTAGATTGAGCTTC 1260
Db 1229 GATCAACTGATAACATTTGACATGAGGCGCAAGGAGGAGCGTGTAGTTGAGCTTC 1288
QY 1261 AACCAATGTCCAGTACAGACCTCTGATGCACTGAAGACAGTAAATTAATGATCCTTTA 1320
Db 1289 CACACAATGTCCAGTACAGACTTACTCAATGCACTGAAGACAGTAAATTAATGATCCTTTA 1348
QY 1321 TATAAGAGAAATATTAAGAAATTTCAAGATTTCAACATGATCAACAGTAAAGCCCTG 1380
Db 1349 TATAAGAGAAATGCTATGAATTTAAGAAATTTCAAGAAATTCATCATGATCAACAGTAAAGCCCTT 1408
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QY 1381 GATCGAGCAGTCTTCTGGATTGAATTTGTTCATGCCCCCAAAAGGAGCAACACCTTCGA 1440
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Db 1469 GTTGCAGCCCATGACCTCACCTGGTTCAGTACACTCTTTGGATGTGATGGTTTCTG 1528
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Db 1529 CTGGCTGTGTGGCAACTGTGATATTTATCATCACAAGT---ATGCTGTTTGTGTTCTGG 1585
QY 1561 AAGTTTCTAGAAAAGGAAAGAGGAAAGAGATTAGTTATGTCTGACATTTGAAAGCT 1620
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QY 1621 GAAAACCATGATAGTAGGCAACTTCAGTTTATTCAGCAAGAAAGAAAGATTTGTTAT 1680
Db 1646 GGAAGAACCCCAATAAAT-GAACTCTCTTTAGTTTATTAACAAGAA--GACCTTGTGATAC 1702
QY 1681 GCAAGATTTCTTCTTCTCTGTGACAAAAAAGGAAAGGAAAGGAAAGGAAAGGAAAGG 1720
Db 1703 AAGAGATTCCTTCTTCTTCTGTGACAAAAAGGAAAGGAAAGGAAAGGAAAGGAAAGG 1742

RESULT 9
US-09-180-852-1
; Sequence 1, Application US/09180852
; Patent No. 6287834
; GENERAL INFORMATION:
; APPLICANT: BELANGER, Alain
; APPLICANT: HUM, Dean W.
; APPLICANT: BEAULIEU, Martin
; APPLICANT: LEVESQUE, Eric
; TITLE OF INVENTION: CHARACTERIZATION AND USE OF AN ISOLATED URIDINE
; TITLE OF INVENTION: DIPOSHO-GLUCURONOSYLTRANSFERASE
; FILE REFERENCE: 1259-449
; CURRENT APPLICATION NUMBER: US/09/180,852
; CURRENT FILING DATE: 1999-02-08
; EARLIER APPLICATION NUMBER: PCT/CA97/00328
; EARLIER FILING DATE: 1997-05-16
; EARLIER APPLICATION NUMBER: US 08/649,319
; EARLIER FILING DATE: 1996-05-17
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2107
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (52)..(1644)
US-09-180-852-1

Query Match 70.8%; Score 1219.2; DB 3; Length 2107;
Best Local Similarity 83.7%; Pred. No. 0;
Matches 1430; Conservative 0; Mismatches 268; Indels 10; Gaps 4;

QY 4 ACCAGGATGACTGGAATGCACTTCAGTTCTTCTGCTGATACATCTCAGTTGTACTTT 63
Db 46 ACCAGGATGCTCTGAATGATGTCAGTCTTCTGCTGATGCAAGTGTGTACTTT 105
QY 64 AGCTCTGGGAGTTGTGGAAGAGTCTGCTGTGGCCGAGAAATACAGCAATGGATGAAT 123
Db 106 AGCTCTGGGAGTTGTGGAAGAGTCTGCTGTGGCCGAGAAATACAGCAATGGATGAAT 165
QY 124 ATGAAGACAAATCCCTGAAGAGCTTTGTTTCAGAGAGGTATGAGGTGACTGTACTGGCATCT 183
Db 166 ATGAAGACAAATCCCTGAAGAGCTTTGTTTCAGAGAGGTATGAGGTGACTGTACTGGCATCT 225
QY 184 TCAGCTTCCATCTTTTGTATCCCAATGATGATCCCACTCTTAATTTGAAGTTTATCCT 243
Db 226 TCGCTTCTATTCTTGTGTCAATGCCAGTAAATCATCTGCTATTAAATAGAAAGTTATCCT 285
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QY 244 ACATCTTTAACTAAACTGAATTTGAGATATCATCATGCAACAGGTTTAAGAGATGTC 303
Db 286 ACATCTTTAACTAAACTGAATTTGGAAGATTTTATGAAAAATGTTTCGATATGAC 345
QY 304 GA-- -CATTCGAAAGAGATAGCTTTTGGTTATATTTTTCACAAGAAACAAGAAATCCCTGTGG 360
Db 346 TATAGTATTTCAAAAAATACATTTTGGTCATATTTTTCACAACCTACAGAATTTGTGTGG 405
QY 361 GAATTTATGACATATTTAGAAACTTCTGTPAAAGATGTAGTTTCAATAAAGAAAGTTATG 420
Db 406 GAATTTCTGACTATAATAATAAAGCTCTGTGAAGATGCAGTTTGAACAAGAAACTTATG 465
QY 421 AAAAAACTACAAGATCAAGATTTGACATCGTTTTTTCAGAGATGCTGTTTTTCCCTGTGGT 480
Db 466 AGAAAACTACAAGATCAAAATTTGATGTCTTCTGCGAGATCCGTTAACTCCTGTGGT 525
QY 481 GAGCTGTGCTCGCTTACFTTAACATACGGTTTTGTGTACAGTCTCCGCTTTTACTCCTGGC 540
Db 526 GAGCTGTGCTGAACTACTTTAAACATACCCTTCTGTACAGTCTCCGCTTCTCTGTGGC 585
QY 541 TACACAATTTGAAAGGCACAGTGGAGGACTGATTTTCCCTCTTCTCCTACATACCTATTGTT 600
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QY 661 CTTTATTTTGTACTTTTGGTTCCAAATGCTCTGATATGAAGAGTGGGATCAGTTTTCACAGT 720
Db 706 CTTTATTTTGTACTTTTGGTTTCAAGCATATGATCTGAAGAGTGGGACCAAGTTTATAGT 765
QY 721 GAAGTTTATAGGAAGCCCACTACTCTTATTTGAGACAAATGGGAAAAGCTGACATATGGCTT 780
Db 766 GAAGTTTCTAGGAAGACCCACTACATTTATTTGAGACAAATGGGAAAAGCTGAAATGTGGCTC 825
QY 781 ATCGAAACTCTGGAGTTTCAATTTCTCTCATCCATTCTTACCAACGTTGATTTGTT 840
Db 826 ATTCGAACCTATTGGGATTTTGAATTTCTCTCGCCCAATCTTACCAATGTTGATTTGTT 885
QY 841 GGAGGATTCACATGCAAACTCGCAAAACCCCTACCTAAGGAAATGGAGGAGTTGTACAG 900
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QY 901 AGCTCTGGAGAAATGGTGTGTGGTGTTTCTCTGGGTCAGTGATAAGTAACATGACA 960
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QY 961 GCAGAAAGGCCCAATGTAATTTGCAACAGCCCTTGGCAAGATCCCAAAAGGTTCTGTGG 1020
Db 1006 GAAGAAAGTGCACCAATGATTTGATCAGCCCTTGGCCAGATCCCAAAAGGTTCTATGG 1065
QY 1021 AGATTTGACGGGATAAACACAGATGCTTAGTCTCAATACCTCGGCTGTACAAGTGGATA 1080
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Db 1126 CCCAGAAATGACCTTCTTGGTCATCCCAAAACCAAGAGCTTTTATACTCATGTGTGAAAC 1185
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Db 1186 AATGGCATCTATGAGGCGATCTACCATGGATCCCTATGTTGGGATTCCTATGTTTTTGG 1245
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QY 1261 AACACAATGTGAGTACAGACTGCTGTAATGCACTGAAGACAGTAAATTAATGATCTTTTA 1320
Db 1306 AGGACCATGTCAAGTAGAGATTTGCTCAATGCATTTGAAGTCAGTCATTAATGACCCCTATC 1365
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QY 1321 TATAAAGAGAATATTTATGAAATTTATCAAGAAATTTCAACATGATCAACACAGTAAAGCCCTG 1380
Db 1366 TATAAAGAGAATATCATGAAATTTATCAAGAAATTTATCATGATCAACCGGTGAAGCCCTG 1425
QY 1381 GATCGAGCAGTCTTCTGGATTTGAATTTGTTCATGCCCCCAAAAGGAGCCAAACACCTTCGA 1440
Db 1426 GATCGAGCAGTCTTCTGGATTTGAGTTTGTATGCGCCATTAAGGAGCCAAAGCCTTCGG 1485
QY 1441 GTTGCAGCCCATGACCTCACCTCGTTCCAGTACCCTCTTTGGATGTGATTTGGTTTCTG 1500
Db 1486 GTCGCAGCCCAACCTCACCTCGATCCAGTACCCTCTTTGGATGTGATGATGATTCCTG 1545
QY 1501 CTGGCCTGTGTGGCACTGTGATATTTATCATCAAAAGTTTGTCTGTGTTTGTGTTCTG 1560
Db 1546 CTGGCCTGTGTGGCACTGTGATATTTATGATCAAAATGTTTGCCTGTTTGTTCGCA 1605
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QY 1621 GGAACCAGATAGATAGGACAACTTCAGTTTATTTCCAGCAAGAAAAGAAAGATTGTTAT 1680
Db 1665 GGAATGACCAAAAGATGGGACTCCTCC--TTTATTCAGCATGGAGG---GTTTTAAAT 1718
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Db 1719 GGAGGATTTTCTTCTTCTGTGACAAAA 1746

RESULT 10
US-09-356-806-112
; Sequence 112, Application US/09356806
; Patent No. 6586175
; GENERAL INFORMATION:
; APPLICANT: Penny, Laura
; APPLICANT: Galvin, Margaret
; APPLICANT: Miller, Andrew
; APPLICANT: Reidy, Michael
; TITLE OF INVENTION: Genotyping Human
; TITLE OF INVENTION: UDP-Glucuronosyltransferase 2B4 (UGT2B4), 2B7 (UGT2B7) and
; TITLE OF INVENTION: 2B15 (UGT2B15) Genes
; FILE REFERENCE: SEQ-22PRV2
; CURRENT APPLICATION NUMBER: US/09/356,806
; CURRENT FILING DATE: 1999-07-20
; NUMBER OF SEQ ID NOS: 164
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 112
; LENGTH: 1976
; TYPE: DNA
; ORGANISM: H. sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (11)...(1598)
US-09-356-806-112

Query Match 70.5%; Score 1213.6; DB 4; Length 1976;
Best Local Similarity 83.1%; Pred. No. 0;
Matches 1421; Conservative 0; Mismatches 279; Indels 10; Gaps 3;

QY 4 ACCAGGATGACTCTGAAATGGACTTCAGTTCCTCTCTGATACATCTCAGTTCTGTTACTTT 63
Db 5 ACAGGATGCTCTGAAATGGAGCTGCTTCTGCTGATACAGCTCAGTCTGTTACTTT 64
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Db 65 AGCTCTGGAAGCTGTGAAAAGGTGCTAGTGTGGCCACAGAAATACAGCCATTGGATAAAT 124
QY 124 ATGAGACAAATCCTGAAAGAGCTTGTTCAGAGAGGTCATGAGTGAAGTCTGCTACTGGATCT 133
Db 125 ATGAGACAAATCCTGGAAGAGCTTGTTCAGAGAGGTCATGAGTGAAGTCTGTTGACATCT 184
QY 184 TCAGGTTCCATCTTTTTCATGCCAATGATGCATCTCTTAAATTTGAAGTTTATCCT 243
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Db 185 TCGGCTTACTCTTGTGCAATGCCAGTAAATCACTGCTATTAATAATTAGAGTTTATCCT 244
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Db 245 ACATCTTTAACTAAATGATTTGGAAGATTTCTCTTGAAAAATCTCGATAGATGATA 304
Qy 301 TCAGACATTCGAAAGATAGCTTTTGGTTATATTTTTCACAAGAACCAAGAAATCCTGTGG 360
Db 305 TATGGTGTTCAAAAAATACATTTTGGTCAATATTTTTCACAATTTACAAGAAATGTGTGG 364
Qy 361 GAATATATGACATATTTAGAACTTCTGTGAAGATGATGTTTCAATATGAAGAGTTATG 420
Db 365 GAATATATGACTACAGTAACAGCTCTGTGAAGATGCAATTTTGAATTAAGAAATCTATG 424
Qy 421 AAAAAAATACAGAGTCAAGATTTGACATCGTTTTTGCAGATGCTGTGTTTTTCCCTGTGGT 480
Db 425 ATGAACCTACAAGAGTCAAAGTTTGTATGTCATTTCTGCGAGATGCCCTTAATCCCTGTGGT 484
Qy 481 GAGCTGTGGTGGCTACTTAAACATACGGTTTGTGTACAGTCTCCGCTTTTACTCTGTGGC 540
Db 485 GAGCTACTGGCTGAACATATTTAAACATACCCCTTCTGTACAGTCTTCGATTCCTGTGGC 544
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Db 545 TACACATTTGAGAGAAATGGTGGAGGATTTCTGTGTCCTCTCTCTATGACTCTGTGTT 604
Qy 601 ATGTCAAAATTAAGTGTCAAAATGACATTTTCATGAGAGGGTAAATAATATGATCATGTG 660
Db 605 ATGTCAGAAATTAAGTGTCAAAATGATTTTCAATGAGAGGATTAATAATATGATCATATG 664
Qy 661 CTTTATTTTGTACTTTTGGTTCCAAATGTCTGATATGAAGAGTGGGATCAGTTTTTACAGT 720
Db 665 CTTTATTTTGTACTTTTGGTTTCAAATTTATGATCTGAAGAGTGGGACCACTTTTATAGT 724
Qy 721 GAAGTTTGTAGAGAACCACTACTTATTTGAGACAATGGGAAAGCTGACATATGCGTT 780
Db 725 GAAGTTTGTAGAGAACCACTACTTATTTGAGACAATGGGAAAGCTGAAATGTGGCTC 784
Qy 781 ATGCGAACTCTCGAGTTTTCAATTTCTCTCATCATCTTTTACCACAACTGTTGATTTGTT 840
Db 785 ATTGAACTTATGGGATTTTGAATTTTCTCGCCCATCTTTACCACAAATGTTGATTTGTT 844
Qy 841 GGAGGATTTCACTGCAAACTGCCAAACCCCTACTTAAGGAAATGGAGGATTTGTACAG 900
Db 845 GGAGGATTTCACTGTAACACAGCAACCCCTGCTTAAGGAAATGGAGGATTTGTGCGAG 904
Qy 901 AGCTCTGGAGAAATGTGTGTGGTGTGTTCTCTGGGCTCAGTGAATGAATGAATGAACA 960
Db 905 AGCTCTGGAGAAATGTGTGTGGTGTGTTCTCTGGGCTCAGTGAATGAATGAATGAACA 964
Qy 961 GCAGAAAGGGCCAAATGTAATTTGCAACAGCCCTTCCCAAGATCCCAAAAAGGTTCTGTGG 1020
Db 965 GAAGAAAGTGCCAAATGTAATTTGCAACAGCCCTTCCCAAGATCCCAAAAAGGTTCTGTGG 1024
Qy 1021 AGATTTTGAACGGGAATAAACACAGATGCTTAGTGTCTCAATATCTGGCTGTACAAGTGATA 1080
Db 1025 AGATTTTGAACGGGAATAAACACAGATGCTTAGTGTCTCAATATCTGGCTGTACAAGTGATA 1084
Qy 1081 CCCAGAAATGACCTTTAGTGTATCCAAACACAGAGCTTTTATTAATCTCATGTGTGGAGCC 1140
Db 1085 CCCAGAAATGACCTTTAGTGTATCCCAACACAGAGCTTTTATTAATCTCATGTGTGGAGCC 1144
Qy 1141 AATGGCATCTATGAGGAATCTACCATGGGATCCCTATGTGGGCAATTCATTTGTTTTT 1200
Db 1145 AATGGCATCTATGAGGCAATCTACCATGGGATCCCTATGTGGGCAATTCATTTGTTTTT 1204
Qy 1201 GATCAACCTGTATAACATTTGCTCACATGAAGGCCAAGGAGCAGCTGTTAGATGAGCTTC 1260
Db 1205 GATCAACATGATATAACATTTGCTCACATGAAGGCCAAGGAGCAGCTGTTAGATGAGCTTC 1264
Qy 1261 AACCAATGTGAGTACAGACCTGCTGAATGCACTGAAGACAGTAATTAATGATCCTTTA 1320
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Qy 1381 GATCGAGCAGCTCTTCGATTTGAAATTTGTATGCCCCACAAAGAGGCCAAACACCTTCGA 1440
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Db 1505 CTGGCTGTGTGGCAACTGTGATATTATCATCAAAATTTTGGCTGTTTTGTTTTCCGA 1564
Qy 1561 AAGTTTGTCTAGAAAAGGAAAGAGGAAAAGAGATTAGTTATGCTGTGACATTTGAAGCT 1620
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Qy 1621 GGAACCACAGATAGATAGGACAACTTCAGTTTATTCAGCAAGCAAGAAAGAGATTGTTAT 1680
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RESULT 11

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US-09-813-918-1
; Sequence 1, Application US/09813918
; Patent No. 6383789
; GENERAL INFORMATION:
; APPLICANT: WEBSTER, Marion et al.
; TITLE OF INVENTION: ISOLATED HUMAN DRUG-METABOLIZING
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN
; TITLE OF INVENTION: DRUG-METABOLIZING PROTEINS,
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL001175
; CURRENT APPLICATION NUMBER: US/09/813,918
; CURRENT FILING DATE: 2001-03-22
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1413
; TYPE: DNA
; ORGANISM: Human
US-09-813-918-1
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Query Match 66.9%; Score 1151.8; DB 3; Length 1413;

Best Local Similarity 85.7%; Pred. No. 0;

Matches 1391; Conservative 0; Mismatches 7; Indels 225; Gaps 1;

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Db 74 TTTAGCTCTGGGAGTTGTGAAAAAGTCTGCTGTGGCCCGCAGAAATACAGCCATTGGATG 133
Qy 121 AATATGAAGCAATCTCTGAAAGAGCTTGTTCAGAGAGTTCATGAGGTGACTGTACTGGCA 180
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Qy 181 TCTTCAGTCTCCATCTCTTTTGTATCCCAATGATGCATCCACTCTTAAATTTGAAGTTTAT 240
Db 194 TCTTCAGTCTCCATCTCTTTTGTATCCCAATGATGCATCCACTCTTAAATTTGAAGTTTAT 253
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Db 254 CCTACATCTTTAACTAAAAGTGAATTTGAGATATCATCATGCAACAGGTTAAGATGG 313
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Db 522 -----GACCCACTACCTTATTTGAGACAATGGRAAAGCTGACATATGCTT 568
QY 781 ATGCGAAATCCTCGAGTTTTCAATTTCCCTCATCCATCTTACCAACGTTGATTTGTT 840
Db 569 ATGCGAAACCCCTGGAGTTTCAATTTCCCTCATCCATCTTACCAACGTTGATTTGTT 628
QY 841 GGAGGATTCACATGCAAACTGCAAAACCCCTACCTTAAGCAATGGAGGATTTGTACAG 900
Db 629 GGAGGATTCACATGCAAACTGCAAAACCCCTACCTTAAGCAATGGAGGATTTGTACAG 688
QY 901 AGCTCTGGAGAAATAGTGTGTGGTGTCTCTCGGGTCACTGATATAAGTAAACATGACA 960
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QY 961 GCAGAAAGGGCCCAATGTAATTTGCAACAGAGCCCTTGCACAAGATCCCAAAAAGTTCTGTGG 1020
Db 749 GCAGAAAGGGCCCAATGTAATTTGCAACAGAGCCCTTGCAGAGATCCCAAAAAGTTCTGTGG 808
QY 1021 AGATTTGACGGGAATTAACACAGATGCTTTAGGTCTCAATACTCGGCTGTACAAGTGGATA 1080
Db 809 AGATTTGACGGGAATTAACACAGATGCTTTAGGTCTCAATACTCGGCTGTACAAGTGGATA 868
QY 1081 CCCAGAAATGACCTTCTAGTGTATCAAAAACAGAGCTTTTATAACTCATGTGTGGAGCC 1140
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QY 1141 AATGGCATCTATGAGGCAATCTACCATGGATCCCTATGTTGGGCATTCATATGTTTTTTT 1200
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QY 1201 GATCAACCTGATTAACATTTGCTACATGAAGGCCAAGGGAGCAGCTGTAGATTGGACTTC 1260
Db 989 GATCAACCTGATTAACATTTGCTACATGAAGGCCAAGGGAGCAGCTGTAGATTGGACTTC 1048
QY 1261 AACACAATGTCGAGTACAGACCTGCTGAATGTGACTGAAGACAGTAAATTAATGATCCTTTA 1320
Db 1049 AACACAATGTCGAGTACAGACCTGCTGAATGTGACTGAAGACAGTAAATTAATGATCCTTTA 1108
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QY 1441 GTTGAGGCCCATGACCTCACCTGGTTCCAGTACCACTCTTTTGGATGTGATTCGGTTTCTG 1500
Db 1229 GTTGAGGCCCATGACCTCACCTGGTTCCAGTACCACTCTTTTGGATGTGATTCGGTTTCTG 1288
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QY 1561 AAGTTTGTAGAAAAGGGAAGAGGAAAAAGAGATTAGTTATCTGTGACATTTGAAGCT 1620
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QY 1621 GGA 1623
Db 1409 GAA 1411

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; Sequence 1, Application US/10060311
; Patent No. 6713295
; GENERAL INFORMATION:
; APPLICANT: WEBSTER, Marion et al.
; TITLE OF INVENTION: ISOLATED HUMAN DRUG-METABOLIZING
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN
; TITLE OF INVENTION: DRUG-METABOLIZING PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL001175DIV
; CURRENT APPLICATION NUMBER: US/10/060,311
; CURRENT FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1413
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-060-311-1

Query Match 66.9%; Score 1151.8; DB 4; Length 1413;
Best Local Similarity 85.7%; Pred No. 0;
Matches 1391; Conservative 0; Mismatches 7; Indels 225; Gaps 1;

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Db 74 TTTAGCTCTGGAGTTGTGGAAAAGTGTGGTGTGGCCCGCAGAAATACAGCCATTGGATG 133
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QY 241 CCTACATCTTTAACTTAAACCTGAAATTTGAGATATCATCATGCAACAGGTTAAGAGATCG 300
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QY 301 TCAGACATTCGAAAGATAGCTTTTGGTTATATTTTTCACAGAAACAAGAAATCCCTGTGG 360
Db 314 TCAGACATTCGAAAGATAGCTTTTGGTTATATTTTTCACAGAAACAAGAAATCCCTGTGG 373
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Qy 1441 GTTCAGCCCAATGACCTCAGCTGTTCCAGTACCACTCTTTTGGATGTGATTTGGTTCTG 1500
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Qy 1621 GGA 1623
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Qy 1409 GAA 1411
Db |||||||

RESULT 13
US-09-949-016-2735
; Sequence 2735, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2735
; LENGTH: 1323
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2735

Query Match 55.9%; Score 962.2; DB 4; Length 1323;
Best Local Similarity 83.6%; Pred. No. 8,8e-268;
Matches 1103; Conservative 0; Mismatches 213; Indels 3; Gaps 1;

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Qy 64 AGCTCTGGGAGTTGTGAAAAGTCTGCTGTGGGCCCCAGAAATACAGCCCATTTGATGAT 123
Db |||||||
Qy 65 AGCTCTGGAAGCTGTGAAAAGGTCTAGTGTGGCCCCACAGAAATACAGCCCATTTGAT 124
Db |||||||
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Db |||||||
Qy 125 ATGAAGACAATCCTGGAAGAGCTTGTTCAGAGGGTCTATGAGGTGACTGTGTCACATCT 184
Db |||||||
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Qy 185 TCAGCTTCTACTCTTGTCAATGCCAGTAAATCATCTGCTATTAATTTAGAAATTTATCCT 244
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Qy 425 ATGAAGACTACAAGAGTCAAGATTTGATGTCTTCTGCGAGATGCCCTTAATCCCTGTTGT 484
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1	1693	98.3	1712	9	US-09-981-353-189
2	1693	98.3	1712	15	US-10-158-646-42
3	1584.2	92.0	2844	15	US-10-198-846-13134
4	1481.2	86.0	1855	9	US-09-880-107-2120
5	1481.2	86.0	1855	11	US-09-968-007A-735

6	1481.2	86.0	1855	11	US-09-968-007A-735	Sequence 735, App
7	1481.2	86.0	1855	21	US-10-783-528-57	Sequence 57, Appl
8	1481.2	86.0	1855	22	US-10-843-641A-6838	Sequence 6838, Ap
9	1481.2	86.0	1855	22	US-10-843-641A-7205	Sequence 7205, Ap
10	1481.2	86.0	1991	15	US-10-057-834A-1	Sequence 1, Appli
11	1478.6	85.9	2799	9	US-09-880-107-3756	Sequence 3756, Ap
12	1478	85.8	1854	15	US-10-205-522-39	Sequence 39, Appl
13	1454.6	84.5	1714	9	US-09-981-353-193	Sequence 193, App
14	1452.8	84.4	2802	24	US-10-450-763-5515	Sequence 5515, Ap
15	1436	83.4	1859	24	US-10-450-763-5514	Sequence 5514, Ap
16	1396	81.1	1639	19	US-10-468-125-18	Sequence 18, Appl
17	1375.6	79.9	2092	15	US-10-203-522-7	Sequence 7, Appli
18	1364.4	79.2	2093	9	US-09-880-107-3842	Sequence 3842, Ap
19	1361.4	79.1	2111	24	US-10-450-763-5516	Sequence 5516, Ap
20	1213.6	70.5	1976	15	US-10-205-522-112	Sequence 112, App
21	1213.6	70.5	2090	9	US-09-880-107-3292	Sequence 3292, Ap
22	1212	70.4	1829	17	US-10-252-157-24	Sequence 24, Appl
23	1198.8	69.6	2150	9	US-09-981-353-45	Sequence 45, Appl
24	1198.8	69.6	2150	17	US-10-252-157-25	Sequence 25, Appl
25	1175	68.2	2123	9	US-09-880-107-3285	Sequence 3285, Ap
26	1167.6	67.8	1816	24	US-10-491-183-62	Sequence 62, Appl
27	1157.8	66.9	1413	14	US-10-060-311-1	Sequence 1, Appli
28	1151.8	66.9	1413	20	US-10-778-300-1	Sequence 1, Appli
29	1151.8	66.9	1413	26	US-11-013-907-1	Sequence 1, Appli
30	1096.2	63.7	1614	19	US-10-381-898-24	Sequence 24, Appl
31	1027.8	59.7	1662	19	US-10-307-817-117	Sequence 117, App
32	1013.6	58.9	1608	22	US-10-498-788-57	Sequence 57, Appl
33	980.2	56.9	1356	24	US-10-491-183-98	Sequence 98, Appl
34	966.4	56.1	2573	22	US-10-764-420-2410	Sequence 2410, Ap
35	961	55.8	1961	9	US-09-917-800A-1403	Sequence 1403, Ap
36	949	55.1	1606	18	US-10-042-865-27	Sequence 27, Appl
37	949	55.1	1606	19	US-10-072-012-151	Sequence 151, Appl
38	895.4	52.0	1844	15	US-10-175-523-59	Sequence 59, Appl
39	895.4	52.0	1844	26	US-11-099-265-59	Sequence 59, Appl
40	856.2	49.7	1947	19	US-10-152-319A-2121	Sequence 2121, Ap
41	856.2	49.7	1947	22	US-10-486-706-279	Sequence 279, App
42	853.4	49.6	2634	18	US-10-388-934-169	Sequence 169, App
43	849	49.3	1593	19	US-10-152-319A-1908	Sequence 1908, Ap
44	805	46.7	1224	19	US-10-381-898-32	Sequence 32, Appl
45	765.2	44.4	1756	16	US-10-235-994-27	Sequence 27, Appl

ALIGNMENTS

RESULT 1
US-09-981-353-189
; Sequence 189, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy W.
; APPLICANT: Jones, David A.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 189
; LENGTH: 1712
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 480489.5
US-09-981-353-189

Query Match 98.3%; Score 1693; DB 9; Length 1712;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1704; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
QY 1 TGCACAGGATGACTCTGAATGCACTTCAGTTCCTTCGTGATACATCTCAGTTGTAC 60
|||||

Db	8	TGCACCGATGACTCTGAAATGCACTTCTTCTGCTGATACATCTCAGTTGTTAC	67
Qy	61	TTTAGCTCTGGGAGTTGTGGAAGTCTGCTGTGGCCGAGAAATACAGCCATTGGATG	120
Db	68	TTTAGCTCTGGGAGTTGTGGAAGTCTGCTGTGGCCGAGAAATACAGCCATTGGATG	127
Qy	121	AATATGAAGACAATCCTGAAAGAGCTTGTTCAGAGAGGTCATGAGGTGACTGTACTGGCA	180
Db	128	AATATGAAGACAATCCTGAAAGAGCTTGTTCAGAGAGGTCATGAGGTGACTGTACTGGCA	187
Qy	181	TCCTCAGCTCCATTCTTTTGTATCCCAATGATGCATCCACTCTTAAATTTGAAGTTTAT	240
Db	188	TCCTCAGCTCCATTCTTTTGTATCCCAATGATGCATCCACTCTTAAATTTGAAGTTTAT	247
Qy	241	CCTACATCTTTAACTAAACCTGAAATTTGAGAAATCATCATGCAACAGGTTTAAAGATGG	300
Db	248	CCTACATCTTTAACTAAACCTGAAATTTGAGAAATCATCATGCAACAGGTTTAAAGATGG	307
Qy	301	TCAGACATTCGAAAGATGACTTTTGTGTATATTTTCAAGAAACAAGAAATCCTCTGG	360
Db	308	TCAGACATTCGAAAGATGACTTTTGTGTATATTTTCAAGAAACAAGAAATCCTCTGG	367
Qy	361	GAATATATGACATATTTAGAAACCTCTGTAAAGATGTAGTTCAAAATAGAAAGTTATG	420
Db	368	GAATATATGACATATTTAGAAACCTCTGTAAAGATGTAGTTCAAAATAGAAAGTTATG	427
Qy	421	AAAAAACTTACAAGATCAAGATTTGACATCGTTTTTTCAGATGCTGTTTTTCCCTGTGGT	480
Db	428	AAAAAACTTACAAGATCAAGATTTGACATCGTTTTTTCAGATGCTGTTTTTCCCTGTGGT	487
Qy	481	GAGCTGTGCTGGCTGCTACTTTAAACATACGGTTTGTACAGTCTCCGCTTTACTCCCTGGC	540
Db	488	GAGCTGTGCTGGCTGCTACTTTAAACATACGGTTTGTGTACAGTCTCCGCTTTACTCCCTGGC	547
Qy	541	TACAAATTTGAAAGGCAAGTGGAGGACTGATTTTCCCTCCTTCAATACCTATTTGTT	600
Db	548	TACAAATTTGAAAGGCAAGTGGAGGACTGATTTTCCCTCCTTCAATACCTATTTGTT	607
Qy	601	ATGTCAAAATTTAAGTGATCAAACTGATTTTTCATGGAGAGGTTAAAAATATGATCTATGTG	660
Db	608	ATGTCAAAATTTAAGTGATCAAACTGATTTTTCATGGAGAGGTTAAAAATATGATCTATGTG	667
Qy	661	CTTTTATTTTGACTTTTGGTTCCAAATGTCTGATATGAAGAAGTGGGATCAGTTTACAGT	720
Db	668	CTTTTATTTTGACTTTTGGTTCCAAATGTCTGATATGAAGAAGTGGGATCAGTTTACAGT	727
Qy	721	GAAGTTTGAAGAACCCACTACCTTATTTGAGACAAATGGGAAAGCTGATATGGCTT	780
Db	728	GAAGTTTGAAGAACCCACTACCTTATTTGAGACAAATGGGAAAGCTGATATGGCTT	787
Qy	781	ATGCGAACTCCTGGAGTTTCAATTTTCCATCCTATCTTACCAACGTTGATTGTT	840
Db	788	ATGCGAACTCCTGGAGTTTCAATTTTCCATCCTATCTTACCAACGTTGATTGTT	847
Qy	841	GGAGGATTCACACT--GCAAACTGCGCAAAACCCCTACCTTAAGAAATGAGAGTTTGTACA	899
Db	848	GGAGGATTCACATGCGCAAACTGCGCAAAACCCCTACCTTAAGAAATGAGAGTTTGTACA	907
Qy	900	GAGCTCTGGAGAAAATGGTGTGTGGTGTGTTTTCTCGGGTCACTGATAAGTAACATGAC	959
Db	908	GAGCTCTGGAGAAAATGGTGTGTGGTGTGTTTTCTCGGGTCACTGATAGTAACATGAC	967
Qy	960	AGCAGAAAGGCCAAATGTATTTGCAACAGCCCTTGCAGATCCCAAAAGGTTCTGTG	1019
Db	968	AGCAGAAAGGCCAAATGTATTTGCAACAGCCCTTGCAGATCCCAAAAGGTTCTGTG	1027
Qy	1020	GAGATTTTGAACGGGAATAAACACAGATGCTTAGGTCTCAATACTCGGCTGTACAAGTGGAT	1079
Db	1028	GAGATTTTGAACGGGAATAAACACAGATGCTTAGGTCTCAATACTCGGCTGTACAAGTGGAT	1087
Qy	1080	ACCCAGAAATGACCTCTTAGGTCAATCAAAACACAGAGCTTTTATAACTCATGTTGGAGC	1139
Db	1088	ACCCAGAAATGACCTCTTAGGTCAATCAAAACACAGAGCTTTTATAACTCATGTTGGAGC	1147

QY	1140	CAATGGCATCTATGAGCAATCTACCATGGGATCCCTATGTTGGGATTCCTCATTTGTTTT	1199
DB	1148	CAATGGCATCTATGAGCAATCTACCATGGGATCCCTATGTTGGGATTCCTCATTTGTTTT	1207
QY	1200	TGATCAACCTTGATAACATTGCTCACATGAAGGCCAAGGGAGCAGCTGTTAGATTGACATT	1259
DB	1208	TGATCAACCTTGATAACATTGCTCACATGAAGGCCAAGGGAGCAGCTGTTAGATTGACATT	1267
QY	1260	CAACACAATGTCGAGTAGACAGACCTGCTGTAATGCACCTGAAGACAGTAATTAATGATCCTTT	1319
DB	1268	CAACACAATGTCGAGTAGACAGACCTGCTGTAATGCACCTGAAGACAGTAATTAATGATCCTTT	1327
QY	1320	ATATAAAGAGAATATTATGMAAATTATCAAGAAATTCACCATGATCAACAGTAGTAAGCCCT	1379
DB	1328	ATATAAAGAGAATATTATGMAAATTATCAAGAAATTCACCATGATCAACAGTAGTAAGCCCT	1387
QY	1380	GGATCGAGCAGTCTTCTGGGATTGAAATTTGTCATGCCCCACAAAGGAGCCAAACACCTTCG	1439
DB	1388	GGATCGAGCAGTCTTCTGGGATTGAAATTTGTCATGCCCCACAAAGGAGCCAAACACCTTCG	1447
QY	1440	AGTTGGACGCCATGACCTCACCTGGTTTCCAGTAGTACCACCTCTTTGGATGTGATTTGGGTTTCT	1499
DB	1448	AGTTGGACGCCATGACCTCACCTGGTTTCCAGTAGTACCACCTCTTTGGATGTGATTTGGGTTTCT	1507
QY	1500	GCTGGCCTGTGTGGCAACTGTGTATATTATCATCAAAAGTTTGTCTGTTTGTGTTCTG	1559
DB	1508	GCTGGCCTGTGTGGCAACTGTGTATATTATCATCAAAAGTTTGTCTGTTTGTGTTCTG	1567
QY	1560	GAAGTTTGTCTAGAAAAGGGAGAGGMAAAGAGATTAGTTATGCTGACATTTCGAGC	1619
DB	1568	GAAGTTTGTCTAGAAAAGGGAGAGGMAAAGAGATTAGTTATGCTGACATTTCGAGC	1627
QY	1620	TGAAAAACCATAGATAGGACAACTTCAGTTTATTTCAGCAAGAAAGAAAAGATTGTTA	1679
DB	1628	TGAAAAACCATAGATAGGACAACTTCAGTTTATTTCAGCAAGAAAGAAAAGATTGTTA	1687
QY	1680	TGCAAGATTTCTTTCTTCCTGTGAC	1704
DB	1688	TGCAAGATTTCTTTCTTCCTGTGAC	1712

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RESULT 2
US-10-158-646-42
; Sequence 42, Application US/10158646
; Publication No. US20030073105A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy K.W.
; APPLICANT: Soranase, Thierry
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0030-1 US
; CURRENT APPLICATION NUMBER: US/10/158,646
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: 60/295,239
; PRIOR FILING DATE: 2001-05-31
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: PERL Program
; SEQ ID NO 42
; LENGTH: 1712
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030073105A1 480489.3
US-10-158-646-42

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Db	TGACCA	CGAGATGA	CTCTGAAATGGACATTCAGTTCTCTGCTGATACATCTCAGTTGTTAC

QY 61 TTTAGCTCTGGAGTGTGGAAGTGTCTGTGTGGCCGAGAAATACAGCCATTGGATG 120
DB 68 TTTAGCTCTGGAGTGTGGAAGTGTCTGTGTGGCCGAGAAATACAGCCATTGGATG 127
QY 121 AATATGAAGACAATCTGAAGAGCTTGTTCAGAGAGGTGATGAGTGCATGCTACTGGCA 180
DB 128 AATATGAAGACAATCTGAAGAGCTTGTTCAGAGAGGTGATGAGTGCATGCTACTGGCA 187
QY 181 TCTTCAGCTTCCATTCTTTTGTATCCCAATGATGCATCCACTCTTTAAATTTGAAGTTTAT 240
DB 188 TCTTCAGCTTCCATTCTTTTGTATCCCAATGATGCATCCACTCTTTAAATTTGAAGTTTAT 247
QY 241 CCTACATCTTTAACTAAATCTGAATTTGAGAAATATCATATGCAACAGGTTTAAGAGATGG 300
DB 248 CCTACATCTTTAACTAAATCTGAATTTGAGAAATATCATATGCAACAGGTTTAAGAGATGG 307
QY 301 TCAGACATTCGAAAGATAGCTTTTGTATATTTTTCACAAAGCAAGAAATCCTGTGG 360
DB 308 TCAGACATTCGAAAGATAGCTTTTGTATATTTTTCACAAAGCAAGAAATCCTGTGG 367
QY 361 GAAATATATGACATATTTAGAAATCTTGTAAAGATGTAGTTTCAAATTAAGAAATTTATG 420
DB 368 GAAATATATGACATATTTAGAAATCTTGTAAAGATGTAGTTTCAAATTAAGAAATTTATG 427
QY 421 AAAAACTTACAGAGTCAAGATTTGACATCGTTTTTGCAGATGCTGTTTTTCCCTGTGGT 480
DB 428 AAAAACTTACAGAGTCAAGATTTGACATCGTTTTTGCAGATGCTGTTTTTCCCTGTGGT 487
QY 481 GAGCTGTGGTGGCTTACTTAAATAGCTTTGATGATGATGATGATGATGATGATGATGATG 540
DB 488 GAGCTGTGGTGGCTTACTTAAATAGCTTTGATGATGATGATGATGATGATGATGATGATG 547
QY 541 TACAAATTTGAAGGACAGTGGAGGACTGATTTTCCCTCTTACATACCTATTGTT 600
DB 548 TACAAATTTGAAGGACAGTGGAGGACTGATTTTCCCTCTTACATACCTATTGTT 607
QY 601 ATGTCAAATTTAAGTGATCAATGACCTTTATGAGAGGGTAAATAATATGATCTATGTG 660
DB 608 ATGTCAAATTTAAGTGATCAATGACCTTTATGAGAGGGTAAATAATATGATCTATGTG 667
QY 661 CTTTATTTTGTGCTTTGGTCCAAATGCTGATATGAAGAGTGGATCAGTTTACAGT 720
DB 668 CTTTATTTTGTGCTTTGGTCCAAATGCTGATATGAAGAGTGGATCAGTTTACAGT 727
QY 721 GAAGTTTTAGGAAGACCCACTTATTTGAGACAATGGGAAAGCTGACATATGCTT 780
DB 728 GAAGTTTTAGGAAGACCCACTTATTTGAGACAATGGGAAAGCTGACATATGCTT 787
QY 781 ATGCGAAATCCTCGAGTTTTCAATTTTCTCATCCATTCTTACCAACGTTGATTTTGT 840
DB 788 ATGCGAAATCCTCGAGTTTTCAATTTTCTCATCCATTCTTACCAACGTTGATTTGT 847
QY 841 GGAGATTCCTACT-GCAAACTGCAAAACCCCTACCTAAGAAATGAGAGATTTGTACA 899
DB 848 GGAGATTCCTACTGCAAAACCTGCAAAACCCCTACCTAAGAAATGAGAGATTTGTACA 907
QY 900 GAGCTCTGGAGAAATGCTGTGTGTGTTTTCTCTGSGGTGCTGATAGTACATGAC 959
DB 908 GAGCTCTGGAGAAATGCTGTGTGTGTTTTCTCTGSGGTGCTGATAGTACATGAC 967
QY 960 AGCAGAAAGGCGCAATGTAATTTGCAACAGCCCTTGCACCAAGATCCCAAAAGGTTCTGTG 1019
DB 968 AGCAGAAAGGCGCAATGTAATTTGCAACAGCCCTTGCACCAAGATCCCAAAAGGTTCTGTG 1027
QY 1020 GAGATTTGACGGGAATAAACAGATGCTTAAAGTCTCAATCTCGGTGTACAAAGTGGAT 1079
DB 1028 GAGATTTGACGGGAATAAACAGATGCTTAAAGTCTCAATCTCGGTGTACAAAGTGGAT 1087
QY 1080 ACCCAGAAATACCTTCTAGGTCTATCCAAACAGAGCTTTTATTAATCTCATGTGGAGC 1139
DB 1088 ACCCAGAAATACCTTCTAGGTCTATCCAAACAGAGCTTTTATTAATCTCATGTGGAGC 1147

QY 1140 CAATGGCATCTATGAGCAATCTACCATGGATCCCTATATGGTGGGATCCATTTGTTTT 1199
DB 1148 CAATGGCATCTATGAGCAATCTACCATGGATCCCTATATGGTGGGATCCATTTGTTTT 1207
QY 1200 TGATCAACCTGATAACATTTGCTCACATGAAGGCCAAGGGAGCAGCTGTTAGATTGGAATT 1259
DB 1208 TGATCAACCTGATAACATTTGCTCACATGAAGGCCAAGGGAGCAGCTGTTAGATTGGAATT 1267
QY 1260 CAACACAATGTCGAGTACAGACCTGCTGAATGCAATGCAAGACAGATTAATTAATGATCCTTT 1319
DB 1268 CAACACAATGTCGAGTACAGACCTGCTGAATGCAATGCAAGACAGATTAATTAATGATCCTTT 1327
QY 1320 ATATAAGAGATATTTATGAATTTCAAGAAATCAACATGATCAACAGTAAGCCCTT 1379
DB 1328 ATATAAGAGATATTTATGAATTTCAAGAAATCAACATGATCAACAGTAAGCCCTT 1387
QY 1380 GGATCCAGAGCTCTCTGGAATGCAATTTGTCATGCCCCACAAAGGAGCCAAACACCTTCG 1439
DB 1388 GGATCCAGAGCTCTCTGGAATGCAATTTGTCATGCCCCACAAAGGAGCCAAACACCTTCG 1447
QY 1440 AGTTGAGCCCATGACCTCACTCTGCTGTTCCAGTACCCTCTTTGGATGATTTGGGTTTCT 1499
DB 1448 AGTTGAGCCCATGACCTCACTCTGCTGTTCCAGTACCCTCTTTGGATGATTTGGGTTTCT 1507
QY 1500 GCTGGCTGTGTGGCAACTGTGATATTTATCATCAACAAAGTTTGTCTGTTTCTGTTCTG 1559
DB 1508 GCTGGCTGTGTGGCAACTGTGATATTTATCATCAACAAAGTTTGTCTGTTTCTGTTCTG 1567
QY 1560 GAAGTTTGTCTAGAAAAGGGAAGGAAAGGAAAGAGATTTAGTTATGCTGACATTTGAAGC 1619
DB 1568 GAAGTTTGTCTAGAAAAGGGAAGGAAAGGAAAGAGATTTAGTTATGCTGACATTTGAAGC 1627
QY 1620 TGAAAAACAGATAGATAGGACAACTTCAGTTTATTTCCAGCAAGAAAGAAAGATTGTTA 1679
DB 1628 TGAAAAACAGATAGATAGGACAACTTCAGTTTATTTCCAGCAAGAAAGAAAGATTGTTA 1687
QY 1680 TGCAAGATTTCTTTCTCTCTGTGAC 1704
DB 1688 TGCAAGATTTCTTTCTCTCTGTGAC 1712

RESULT 3

US-10-198-846-13134
; Sequence 13134, Application US/10198846
; Publication No. US2003009974A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Xu, Yongyao
; APPLICANT: Wang, Youzhen
; APPLICANT: Steinmann, Kathleen
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
; TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF BREAST CANCER
; FILE REFERENCE: MRI-049
; CURRENT APPLICATION NUMBER: US/10/198,846
; CURRENT FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/306,220
; PRIOR FILING DATE: 2001-07-18
; NUMBER OF SEQ ID NOS: 14084
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 13134
; LENGTH: 2844
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2824, 2825, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 2833,
; LOCATION: 2834, 2835, 2836, 2837, 2838, 2839, 2840, 2841, 2842, 2843,
; LOCATION: 2844
; OTHER INFORMATION: n = A, T, C or G
US-10-198-846-13134

Query Match

92.0%; Score 1584.2; DB 15; Length 2844;

Best Local Similarity 95.4%; Pred. No. 0;				Matches 78; Indels 0; Gaps 0;			
Matches 1631; Conservative							
QY	1	TGCACGAGTACTCTGAAATGGACCTTCAGTCTCTCTGCTGATACATCTCAGTTGTTAC	60				
Db	25	TGCACGAGTACTCTGAAATGGACCTTCAGTCTCTCTGCTGATACATCTCAGTTGTTAC	84				
QY	61	TTTAGCTCTGGGAGTTGTGGAAGGTGCTGGTGGCCGCGCAGAAATACAGCAATTCGATG	120				
Db	85	TTTAGCTCTGGGAGTTGTGGAAGGTGCTGGTGGCCGCGCAGAAATACAGCAATTCGATG	144				
QY	121	AATATGAAGACAATCTGAAAGAGCTGTGTCAGAGAGGTATGAGTGACTGTACTGGCA	180				
Db	145	AATATGAAGACAATCTGAAAGAGCTGTGTCAGAGAGGTATGAGTGACTGTACTGGCA	204				
QY	181	TCCTCAGCTTCCATCTCTTTTGATCCCAATGATGCATCCACTCTTAAATTTGAAGTTTAT	240				
Db	205	TCCTCAGCTTCCATCTCTTTTGATCCCAATGATGCATCCACTCTTAAATTTGAAGTTTAT	264				
QY	241	CCTACATCTTTAACTAAACTCTGAAATTTGAGAAATATCATATGCAACAGGTTTAAGATGG	300				
Db	265	CCTACATCTTTAACTAAACTCTGAAATTTGAGAAATATCATATGCAACAGGTTTAAGATGG	324				
QY	301	TCAGACATTCGAAAGAGTACTTTTGGTTATATTTTTCACAGAACCAAGAAATCTCTGG	360				
Db	325	TCAGACATTCGAAAGAGTACTTTTGGTTATATTTTTCACAGAACCAAGAAATCTCTGG	384				
QY	361	GAATATATGACATATTTAGAAACTTCTGTAAGATGTAGTTTCAATAAGAAAGTTATG	420				
Db	385	GAATATATGACATATTTAGAAACTTCTGTAAGATGTAGTTTCAATAAGAAAGTTATG	444				
QY	421	AAAAAACTCAAGAGTCAAGATTTGACATCGTTTTTTCAGATGCTGTTTTTCCCTGCTGT	480				
Db	445	AAAAAACTCAAGAGTCAAGATTTGACATCGTTTTTTCAGATGCTGTTTTTCCCTGCTGT	504				
QY	481	GAGCTGCTGCTCGCTACTTAAATACATACAGTCTGCTGCTGCTGCTGCTGCTGCTGCT	540				
Db	505	GAGCTGCTGCTCGCTACTTAAATACATACAGTCTGCTGCTGCTGCTGCTGCTGCTGCT	564				
QY	541	TACACAAATGAAGGACAGTGGAGAGTATTTTCCCTCTCTACATACCTATTGTT	600				
Db	565	TACACAAATGAAGGACAGTGGAGAGTATTTTCCCTCTCTACATACCTATTGTT	624				
QY	601	ATGTCAAAATTAAGTGATCAAAATGCTTTCATGGAGGGTAAATAATATGATCTATGTG	660				
Db	625	ATGTCAAAATTAAGTGATCAAAATGCTTTCATGGAGGGTAAATAATATGATCTATGTG	684				
QY	661	CTTTATTTTGACATTTTGGTTCCAAATGCTCTGATATGAAGAAGTGGATCAGTTTACAGT	720				
Db	685	CTTTATTTTGACATTTTGGTTCCAAATGCTCTGATATGAAGAAGTGGATCAGTTTACAGT	744				
QY	721	GAAGTTTATAGGAGACCCACTACTTATTTGAGACAAATGGGAAAGCTGACATATGGCTT	780				
Db	745	GAAGTTTATAGGAGACCCACTACTTATTTGAGACAAATGGGAAAGCTGACATATGGCTT	804				
QY	781	ATCGAAACTCTCGGAGTTTTCAAATTTCTCATCTTCTTACCAACGTTGATTTGTT	840				
Db	805	ATCGAAACTCTCGGAGTTTTCAAATTTCTCATCTTCTTACCAACGTTGATTTGTT	864				
QY	841	GGAGGATTCACATCGCAAACTCGCAACCCCTACCTAAGGAAATGGAGGAGTTTGTACAG	900				
Db	865	GGAGGATTCACATCGCAAACTCGCAACCCCTACCTAAGGAAATGGAGGAGTTTGTACAG	924				
QY	901	AGCTCTGGAGAAAATGGTGTGTGGTGTCTCTGGGGTCAAGTATGATTAACATGACA	960				
Db	925	AGCTCTGGAGAAAATGGTGTGTGGTGTCTCTGGGGTCAAGTATGATTAACATGACA	984				
QY	961	GCAGAAAGGCCCAATGTAATTTGCAACAGAGCTTGGCAAGATCCCAAAAAGGTTCTGTGG	1020				
Db	985	GCAGAAAGGCCCAATGTAATTTGCAACAGAGCTTGGCAAGATCCCAAAAAGGTTCTGTGG	1044				
QY	1021	AGATTTTGACGGGAATAAACAGATGCTTAGGTCTCAATATCTCGGCTGTACAGTGGATA	1080				

Db	1045	AGATTGATGGAAATAAACCCAGATGCCTTAGTCTCAATACTCGGCTGTATAAGTGGATA	1104
QY	1081	CCCCAGAAATGACCTTCTAGGTTCATCCAAAACCCAGAGCTTTTATAAATCATGTTGGAGCC	1140
Db	1105	CCCCAGAAATGACCTTCTAGGTTCCTCAAAAACCCAGAGCTTTTATAAATCATGTTGGAGCC	1164
QY	1141	AATGCAATCTATGAGGCAATCTACCATGGATCCCTATGTTGGGGCATTTCCATTTGTTTTT	1200
Db	1165	AATGCAATCTATGAGGCAATCTACCATGGATCCCTATGTTGGGGCATTTCCATTTGTTTTG	1224
QY	1201	GATCAACCTGATAAATTTGCTCAATGAAGGCCAAGGAGGAGCTGTTAGATTGAGCTTC	1260
Db	1225	GATCAACCTGATAAATTTGCTCAATGAAGGCCAAGGAGGAGCTGTTAGATTGAGCTTC	1284
QY	1261	AACCAATGTCGAGTACAGACCTGCTGAATGCACCTGAAGAGAGTAATTAATGATCCTTTTA	1320
Db	1285	CACCAATGTCGAGTACAGACCTGCTGAATGCACCTGAAGAGAGTAATTAATGATCCTTCA	1344
QY	1321	TATAAGAGAAATATTAAGAAATTTCAAGAAATTTCAACATGATCAACCCAGTAAAGCCCTG	1380
Db	1345	TATAAGAGAAATATTAAGAAATTTCAAGAAATTTCAACATGATCAACCCAGTAAAGCCCTG	1404
QY	1381	GATCAGCAGCTCTCTCGAATTTGATGATTTGTCATGCCCAACAAAGGAGCAACACCTTCGA	1440
Db	1405	GATCAGCAGCTCTCTCGAATTTGATGATTTGTCATGCCCAACAAAGGAGCAACACCTTCGA	1464
QY	1441	GTTCGAGCCCATGACCTCACCTGGTTCCAGTACCACTCTTTGGATGTGATTTGGTTCTG	1500
Db	1465	GTTCGAGCCCATGACCTCACCTGGTTCCAGTACCACTCTTTGGATGTGATTTGGTTCTG	1524
QY	1501	CTGGCTGTGTGGCAACTGTGATATTTATCATCAAAAGTTTGTCTGTTTGTCTG	1560
Db	1525	CTGGCTGTGTGGCAACTGTGATATTTATCATCAAAAGTTTGTCTGTTTGTCTG	1584
QY	1561	AGTTTGTCTAGAAAGGGAAGAGGAAAAGAGATTAGTTATGTCTGACATTGGAAGCT	1620
Db	1585	AGTTTGTCTAGAAAGGGAAGAGGAAAAGAGATTAGTTATGTCTGACATTGGAAGCT	1644
QY	1621	GGAAACCCAGATAGATAGACAACTTCAGTTTATTTCCAGCAAGAAAGAAAGATTGTTAT	1680
Db	1645	GGGAAATTCCTGTTTATTTGAAGATTCAGGTTAACCTGAATCAAGTTAACCCAGTCTCAAT	1704
QY	1681	GCAAGATTCTTTCTCTCTCTGTCACAAAAA 1709	
Db	1705	GCTCATTTATCTCTCTCTGTCACAAAAA 1733	

RESULT 4

US-09-880-107-2120
; Sequence 2120, Application US/09880107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
; APPLICANT: Horne, Darci T.
; APPLICANT: Vockley, Joseph G.
; APPLICANT: Scherf, Uwe
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
; FILE REFERENCE: 4921-5028-WO
; CURRENT APPLICATION NUMBER: US/09/880,107
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/211,379
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 60/237,054
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 3950
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2120
; LENGTH: 1855
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 J05428
US-09-880-107-2120

Query Match		86.0%;	Score 1481.2;	DB 9;	Length 1855;
Best Local Similarity		91.7%;	Pred. No. 0;		
Matches 1579;		Conservative	0;	Mismatches	138;
				Indels	5;
				Gaps	1;
Qy	1	TGCACGAGTACCTCTGAAATGACCTTCTCTCTGATGATACATCTCAGTTGTATC	60		
Db	6	TGCACGAGTGTCTGTGAAATGACCTTCTGATGATGATGATGATGATGATGATG	65		
Qy	61	TTTAGCTCTGGGAGTGTGGGAAAGTGTGTGTGGGCGGAGAAATACAGCCATTGGATG	120		
Db	66	TTTAGCTCTGGGAAATGTGGAAAGGTGTGTGTGGGCGGAGAAATACAGCCATTGGATG	125		
Qy	121	AATATGAGACAATCTCTGAAAGAGCTTGTTCAGAGAGGTGATGAGTGTGATCTGGCA	180		
Db	126	AATATGAGACAATCTCTGAAAGAGCTTGTTCAGAGAGGTGATGAGTGTGATCTGGCA	185		
Qy	181	TCCTCAGCTTCCATCTCTTTTGTATCCCAATGATGATGATGATGATGATGATGATG	240		
Db	186	TCCTCAGCTTCCATCTCTTTTGTATCCCAATGATGATGATGATGATGATGATGATG	245		
Qy	241	CCTACATCTTTAACTAAACCTGAAATTTGAGAAATATCATGCAACAGGTTAAGAGATGG	300		
Db	246	CCCACATCTTTAACTAAACCTGAAATTTGAGAAATTTTCAATGCAACAGATTAAGAGATGG	305		
Qy	301	TCAGACATCTCGAAAGATAGCTTTTGTGTATATTTTTCACAAAGAACTCCTGTGG	360		
Db	306	TCAGACATCTCGAAAGATAGCTTTTGTGTATATTTTTCACAAAGAACTCCTGTGG	365		
Qy	361	GAATTTATGACATATTTAGAACTCTGTAAAGATGATGATGATGATGATGATGATG	420		
Db	366	ATATTTGTGTGACATATTTAGAACTCTGTAAAGATGATGATGATGATGATGATG	425		
Qy	421	AAAAAAGTACAAAGATGCAAGATTTGACATCGTTTTCAGAGATGCTGTTTCCCTGTGT	480		
Db	426	AAAAAAGTACAAAGATGCAAGATTTGACATCGTTTTCAGAGATGCTGTTTCCCTGTGT	485		
Qy	481	GAGCTGTGCTGGCTGCTTCTTAAATACATACGTTTGTGTACAGTCTCCCTTACTCTGGC	540		
Db	486	GAGCTGTGCTGGCTGCTTCTTAAATACATACGTTTGTGTACAGTCTCCCTTACTCTGGC	545		
Qy	541	TACAAATTTGAAAGGACAGTGGAGGATGATTTTCCCTCTCTACATACCTATGTT	600		
Db	546	TACAAATTTGAAAGGACAGTGGAGGATGATTTTCCCTCTCTACATACCTATGTT	605		
Qy	601	ATGCAAAATTAAGTATCAATACATCTTTCATGAGAGGTTAAATATATGATCTATGTG	660		
Db	606	ATGCAAAATTAAGTATCAATACATCTTTCATGAGAGGTTAAATATATGATCTATGTG	665		
Qy	661	CTTTATTTTGAATTTTGGTTCCAAATGCTGATATGAAGAGTGGGATCAGTTTACAGT	720		
Db	666	CTTTATTTTGAATTTTGGTTCCAAATGCTGATATGAAGAGTGGGATCAGTTTACAGT	725		
Qy	721	GAAGTTTGAAGAGACCCATCTTATTTGAGACAATGGGAAAGCTGACATATGCTT	780		
Db	726	GAAGTTTGAAGAGACCCATCTTATTTGAGACAATGGGAAAGCTGACATATGCTT	785		
Qy	781	ATGCGAACTCTGGAGTTTCAATTTTCCCTCATCTTCTTACCAACGTTGATTGTT	840		
Db	786	ATTCGAACTCTGGAGTTTCAATTTTCCCTCATCTTCTTACCAACGTTGATTGTT	845		
Qy	841	GGAGATTTCCACTGCAAACTCTGCAAACTCTTCTTAAAGAAATGGAGGATTTGTACAG	900		
Db	846	GGAGATTTCCACTGCAAACTCTGCAAACTCTTCTTAAAGAAATGGAGGATTTGTACAG	905		
Qy	901	AGCTCTGGAGAAATGTTGTGCTGTTTCTCTGGGGTCAAGTAAAGTAAACATGACA	960		
Db	906	AGCTCTGGAGAAATGTTGTGCTGTTTCTCTGGGGTCAAGTAAAGTAAACATGACA	965		
Qy	961	GCAGAAAGGCGCATGTAATTTGCAACAGCCCTTCCCAAGATCCCAAAAGGTTCTGTGG	1020		
Db	966	GAAGAAAGGCGCATGTAATTTGCAACAGCCCTTCCCAAGATCCCAAAAGGTTCTGTGG	1025		

Qy	1021	AGATTTGACCGGAATAAACCCAGATGCTTAGGTCTCAATACTCGGCTGTACAACTGGATA	1080
Db	1026	AGATTTGATGGGAATAAACCCAGATGCTTAGGTCTCAATACTCGGCTGTATAGTGGATA	1085
Qy	1081	CCCCAGATGACCTTCTTAGGTCTCAATTAACCCAGAGCTTTTATTAATCTCATGTGGAGCC	1140
Db	1086	CCCCAGATGACCTTCTTAGGTCTCAATTAACCCAGAGCTTTTATTAATCTCATGTGGAGCC	1145
Qy	1141	AATGGCATCTATCAGGCAATCTACATGGGATCCCTATGTGGGATTCATTTGTTTTC	1200
Db	1146	AATGGCATCTATCAGGCAATCTACATGGGATCCCTATGTGGGATTCATTTGTTTTC	1205
Qy	1201	GATCAACCTGATTAACATTTGCTCAATGAAGCCCAAGGAGCAGCTGTTAGATTGGACTTC	1260
Db	1206	GATCAACCTGATTAACATTTGCTCAATGAAGCCCAAGGAGCAGCTGTTAGATTGGACTTC	1265
Qy	1261	AACACAATGTGAGTACAGACCTGCTGCAATGCACTGAAGACAGTAAATATGATCCCTTTA	1320
Db	1266	AACACAATGTGAGTACAGACCTGCTGCAATGCACTGAAGACAGTAAATATGATCCCTTTA	1325
Qy	1321	TATAAAGAGAAATATTAAGAAATTTCAAGAAATTTCAAGAAATTTCAAGAAATTTCAAG	1380
Db	1326	TATAAAGAGAAATATTAAGAAATTTCAAGAAATTTCAAGAAATTTCAAGAAATTTCAAG	1385
Qy	1381	GATCGAGCAGCTTCTGGATTGAAATTTGTCATGCCCAAAAGAGGCCAACACCTTCGA	1440
Db	1386	GATCGAGCAGCTTCTGGATTGAAATTTGTCATGCCCAAAAGAGGCCAACACCTTCGG	1445
Qy	1441	GTTGAGCCCATGACCTCAGCTGCTCCAGTACACCTCTTTTGGATGATGATGGTTCCTG	1500
Db	1446	GTTGAGCCCATGACCTCAGCTGCTCCAGTACACCTCTTTTGGATGATGATGGTTCCTG	1505
Qy	1501	CTGGCTGTGTGGCAACTGTGATATTTATCATCACAAGTTTGTCTGTGTTTCTGCTGG	1560
Db	1506	CTGGCTGTGTGGCAACTGTGATATTTATCATCACAAGTTTGTCTGTGTTTCTGCTGG	1565
Qy	1561	AACTTTGCTAGAAAAGGGAAGAGGAAAAGAGATTAGTTATGTCGACATTTGAAAGCT	1620
Db	1566	AACTTTGCTAGAAAAGGGAAGAGGAAAAGAGATTAGTTATGTCGACATTTGAAAGCT	1625
Qy	1621	GGAAAAACGATAGATAGGACAACTTCAGTTTATTCAGCAAGAAAGAAAGATTGTTAT	1680
Db	1626	GGAAAAACGATAGATAGGACAACTTCAGTTTATTCAGCAAGAAAGAAAGATTGTTAT	1680
Qy	1681	GCAAGATTTCTTTCTCTGTCGACAAAAGAAAAAAGAAAAA 1722	
Db	1681	GCAAGATTTCTTTCTCTGTCGACAAAAGAAAAAAGAAAAA 1722	

RESULT 5

US-09-968-007A-368
; Sequence 368, Application US/09968007A
; Publication No. US20040115625A1
; GENERAL INFORMATION:
; APPLICANT: Ebner, Reinhard
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signal
; FILE OF INVENTION: Gene Sets
; FILE REFERENCE: 689290-71
; CURRENT APPLICATION NUMBER: US/09/968, 007A
; CURRENT FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US/60/237,172
; PRIOR FILING DATE: 2000-10-02
; PRIOR APPLICATION NUMBER: US/60/237,173
; PRIOR FILING DATE: 2000-10-02
; PRIOR APPLICATION NUMBER: US/60/237,278
; PRIOR FILING DATE: 2000-10-02
; PRIOR APPLICATION NUMBER: US/60/237,294
; PRIOR FILING DATE: 2000-10-02
; PRIOR APPLICATION NUMBER: US/60/237,295
; PRIOR FILING DATE: 2000-10-02
; PRIOR APPLICATION NUMBER: US/60/237,316
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 1001

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; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 368
; LENGTH: 1855
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-968-007A-368

```

Query Match 86.0%; Score 1481.2; DB 11; Length 1855;
Best Local Similarity 91.7%; Pred. No. 0;
Matches 1579; Conservative 0; Mismatches 138; Indels 5;

Qy	1	TGCACCAAGGATGACTCTCAAAATGGACTTCAGTTCTTCTGCTGATACATCTCAGTTGTTTAC	60
Db	6	TGCACCAAGGATGCTCTGTAATGGACTTCAGTAAATTTTGTCTAAATCAAACTGAGCTTTTGC	65
Qy	61	TTTAGCTCTCGGAGTTGTGGAAAAGTGTGTGTGGGCGCAGAAATACAGCCATTGGATG	120
Db	66	TTTAGCTCTCGGAATTTGTGAAAAGTGTGTGTGGGCGCAGAAATACAGCCATTGGATG	125
Qy	121	AATATGAAGACAATCTCTGAAAGAGCTTGTTTCAGAGAGGTCATGAGGTGACTGTACTGGCA	180
Db	126	AATATAAGACAATCTCTGATGAGCTTATTTCAGAGAGGTCATGAGGTGACTGTACTGGCA	185
Qy	181	TCCTTCAGTCTCCATCTCTTTTGATGCCAATCATGCATCCACTCTTAAATTTGAAGTTTAT	240
Db	186	TCCTTCAGTCTCCATCTCTTTTGATGCCAACAACCTCATCCGCTCTTAAATTTGAATTTAT	245
Qy	241	CCTACATCTTTAACTAAACCTGAAATTTGAGAAATATCATCTGCAACAGGTTAAGAGATGG	300
Db	246	CCCACATCTTTAACTAAACCTGAGTTGGAGAAATTCATCATGCAACAGATTAAGAGATGG	305
Qy	301	TCAGACATTTGAAAAGATAGCTTTTGGTTATATTTTTTCAAGAAACAAGAAATCTCTGGG	360
Db	306	TCAGACCTTCCAAAAGATACATTTTGGTTATATTTTTTCACAAGTACAGGAAATCATGTCA	365
Qy	361	GAATTTATATGACATATTTAGAAAATCTCTGTAAAGATGTAGTTTCAAATAAGAAAGTTATG	420
Db	366	ATATTTTGGTGACATAACTAGAAAGTCTGTAAAGATGTAGTTTCAAATAAGAAATTTATG	425
Qy	421	AAAAAACTACAAGAGTCAAGATTTGACATCGTTTTTGCAGATGCTGTTTTTCCCTGTGGT	480
Db	426	AAAAAAGTACAAGAGTCAAGATTTGACGTCTATTTTTTGCAGATGCTATTTTTCCCTGTAGT	485
Qy	481	GAGCTGCTGGCTGCGCTACTTTAAACATACGGTTTGTGTACAGTCTCCGCTTTTACTCCTGGC	540
Db	486	GAGCTGCTGGCTGAGCTATTTTAAACATACCCCTTGTGTACAGTCTCAGCTTCTCTCCTGGC	545
Qy	541	TACACAATTTGAAGGCAAGTGGAGGACTGATTTTTCCCTCTCTCATACATACCTATTGTT	600
Db	546	TACACTTTTGAAGAGCATGTGTGGAGATTATATTTTCCCTCTCTCTACGTACTGTGTTGTT	605
Qy	601	ATGTCAAAATTAAGTGATCAAAATGACTTTTCATGGAGAGGGTAAAAAATATGATCTATGTG	660
Db	606	ATGTCAAGATTAACCTGATCAAAATGACTTTTCATGGAGAGGGTAAAAAATATGATCTATGTG	665
Qy	661	CTTTATTTTGGCTTTGGTTCCAAATGCTCATATGAAGAAGTGGGATCAGTTTTTACAGT	720
Db	666	CTTTTACTTTTGACTTTTGGTTCCGAAATATTTGACATGAAGAAGTGGGATCAGTTTTTATAGT	725
Qy	721	GAAGTTTTTAGGAAGACCCACTACCTTATTTTGAGACAATGGGAAAAGCTGACATATGGCTT	780
Db	726	GAAGTTCTAGGAAGACCCACTACGTTATCTGAGACNAATGGGAAAAGCTGACGTATGGCTT	785
Qy	781	ATGCGAAATCTCTGGAGTTTCAAATTTCCCTCATCCATCTTTTACCAAACGTTGATTTGTT	840
Db	786	ATTGCGAAATCTCTGGAATTTTTCAGTTTCTCTCATCCACTCTTTTACCAAATGTTGATTTGTT	845
Qy	841	GGAGGATTCACATCGCAACCTGCCAAACCCCTACTCTAGGAGAAATGGAGGATTTGTACAG	900
Db	846	GGAGGATCTCACTGCAACCTGCCAAACCCCTGCTTAAAGAAATGGAAGACTTTGTACAG	905
Qy	901	AGCTCTCGAGAAAAATGGTTGTGTGGTGTGTTTTCTCTGGGGTCAGTGATTAAGTAAACATGACA	960

Db	906	AGCTCTCGAGAAATAATGCTGTGTGGTGTTTCTCTGGGGTCAATGCTCAGTAACATGACA	965
Qy	961	GCAGAAAGGGCCAAATGTAATTGCAACAGCCCTTCCCAAGATCCACAAAAAGTTCTGTGG	1020
Db	966	GAAGAAAGGGCCAAACGTAATTGTCATCAGCCCTGGCCAGATCCACAAAAGGTTCTGTGG	1025
Qy	1021	AGATTTGACGGGAATAAACCCAGATGCTTAAAGTCTCAATATCTGGCTGTACAATGAGATA	1080
Db	1026	AGATTTGATGGGAATAAACCCAGATACCTTAAAGTCTCAATATCTGGCTGTATAAGTGATA	1085
Qy	1081	CCCCAGAAATGACCTTCTAGGTGCATCCAAAAACCCAGAGCTTTTATAACTCATGTGGAGCC	1140
Db	1086	CCCCAGAAATGACCTTCTAGGTGCATCCAAAGCCAGAGCTTTTATAACTCATGTGGAGCC	1145
Qy	1141	AATGGCATCTATGAGGCAATCTACCATGGGATCCCTATGCTGGGCAATCCATTTGTTTTT	1200
Db	1146	AATGGCATCTACGAGGCAATCTACCATGGGATCCCTATGCTGGGATCCATTTGTTTTGCC	1205
Qy	1201	GATCAACCTCGATAACATTTGCTCATCATGAAGGCCAAGGAGCAGCTGTTAGATTGGACTTC	1260
Db	1206	GATCAACCTCGATAACATTTGCTCATCATGAAGGCCAAGGAGCAGCTGTTAGATTGGACTTC	1265
Qy	1261	AACAATATGTCGATACAGACTGCTGAAATGCACTGAAGACAGTAATTAATGATCCTTTA	1320
Db	1266	AACAATATGTCGATACAGACTGCTGTAATGCAATGAAGAGAGTAATTAATGATCCTTCA	1325
Qy	1321	TATAAGAGAGAATAATTATGAAATTTATCAAGAAATTCACATGATCAACAGTAAAGCCCCCTG	1380
Db	1326	TATAAGAGAGAATGTTATGAAATTTATCAAGAAATTCACATGATCAACAGTAAAGCCCCCTG	1385
Qy	1381	GATCGAGCAGTCTCTGGATGTAATTTGTTCATGCGCCCAAAAGAGGCCAAACCTTCGA	1440
Db	1386	GATCGAGCAGTCTCTGGATGTAATTTGTTCATGCGCCCAAAAGAGGCCAAACCTTCGG	1445
Qy	1441	GTTGCAGCCCATGACCTCACCTGGTCCAGTACCACCTCTTTGGATGTGATTGGTTTCTG	1500
Db	1446	GTTGCAGCCCATGACCTCACCTGGTCCAGTACCACCTCTTTGGATGTGATTGGTTTCTG	1505
Qy	1501	CTGGCTGTGTGGCAACTGTGATATTTATCATCAAAAGTTTTGTCTGTTTTGTTCTCG	1560
Db	1506	CTGTCTGTGTGGCAACTGTGATATTTATCGTCACAAAATGTTGTCTGTTTTGTTTCTGG	1565
Qy	1561	AACTTTTCTAGAAAAGGAGAGGAAAAGAGATTAGTTATGTCCTGACATTTGAGCT	1620
Db	1566	AACTTTTCTAGAAAAGGAGAGGAAAAGAGATTAGTTATGTCCTGACATTTGAGCT	1625
Qy	1621	GGAAAAACAGATAGATAGGACAACTTCAGTTTATTTCCAGCAAGAAAAGAAAGATTGTTAT	1680
Db	1626	GGAAAACTGATAGGTGAGACTACTTCAGTTTATTTCCAGCAAG-----AAAGATTGTGAT	1680
Qy	1681	GCAAGATTTCTTTCTCTCTGTGACAAAAAAGAAAAA	1722
Db	1681	GCAAGATTTCTTTCTCTCTGTGACAAAAAAGAAAAA	1722

RESULT 6

US-09-968-007A-735

US-05-000-007A 735
; Sequence 735, Application US/09968007A

: Publication No. US20040115625A1

: GENERAL INFORMATION:

APPLICANT: Ebner. Reinhard

AFRICANA; EMBEL; REINMUND; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signal; TITLE OF INVENTION: Gene Sets

FILE REFERENCE: 689290-71

REFERENCE: 00230-71
CURRENT APPLICATION NUMBER: US/09/968,007A

; CURRENT FILING DATE: 2001-10-01

; PRIORITY APPLICATION NUMBER: US/60/237,172

: PRIORITY FILING DATE: 2000-10-02
 : PRIORITY FILING NUMBER: 00/00/25/172

PRIOR FILING DATE: 2000-10-02
PRIOR APPLICATION NUMBER: US/60/237.173

; PRIOR FILING DATE: 2000-10-02
 ; PRIOR REGISTRATION NUMBER: 03/00/257,173

; PRIOR FILING DATE: 2000-10-02
 ; PRIOR APPLICATION NUMBER: US/60/237,278

/ PRIOR AFFILIATION NUMBER: 03/00/237,278
 : PRIOR FILING DATE: 2000-10-02

; PRIOR FILING DATE: 2000-10-02
 ; PRIOR APPLICATION NUMBER: US/60/237,294

1 ; FNUOK AFFILIATION NUMBER: 05/00/231,232

; PRIOR FILING DATE: 2000-10-02
; PRIOR APPLICATION NUMBER: US/60/237,295
; PRIOR FILING DATE: 2000-10-02
; PRIOR APPLICATION NUMBER: US/60/237,316
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 1001
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 735
; LENGTH: 1855
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-968-007A-735

Query Match 86.0%; Score 1481.2; DB 11; Length 1855;

Best Local Similarity 91.7%; Pred. No. 0;

Matches 1579; Conservative 0; Mismatches 138; Indels 5; Gaps 1;

QY	1	TGCACACGAGTACTCTGAAATGGACTTCAGTTCTCTTCTGCTGATACATCTCAGTTGTATC	60
DB	6	TGCACACGAGTACTCTGAAATGGACTTCAGTTCTCTTCTGCTGATACATCTCAGTTGTATC	65
QY	61	TTTAGCTCTGGAGTTCTGAAAGTCTGGTGTGGCCGCGACAATACAGCCATTCGATG	120
DB	66	TTTAGCTCTGGAGTTCTGAAAGTCTGGTGTGGCCGCGACAATACAGCCATTCGATG	125
QY	121	AATATGAAGACAATCTCTGAAAGAGCTTGTTCAGAGAGGTCAATGAGGTGACTGTACTGGCA	180
DB	126	AATATGAAGACAATCTCTGAAAGAGCTTGTTCAGAGAGGTCAATGAGGTGACTGTACTGGCA	185
QY	181	TCTTCAGCTTCCATCTCTTTTGATCCCAATGATGATGCACTCTTAAATTTGAATTTAT	240
DB	186	TCTTCAGCTTCCATCTCTTTTGATCCCAATGATGATGCACTCTTAAATTTGAATTTAT	245
QY	241	CTTACATCTTTAACTAAAGTGAATTTGAGATATCATCATGCAACAGGTTAAGATGG	300
DB	246	CCACATCTTTAACTAAAGTGAATTTGAGATATCATCATGCAACAGGTTAAGATGG	305
QY	301	TCAGACATCTGAAAGATAGCTTTTGGTTATATTTTTCACAAAGCAAGAAATCTCTGTGG	360
DB	306	TCAGACATCTGAAAGATAGCTTTTGGTTATATTTTTCACAAAGCAAGAAATCTCTGTGG	365
QY	361	GAATTTATGACATATTTAGAAATCTCTGTAAGATGTAGTTTCAATTAAGAAATGATG	420
DB	366	ATATTTTGGTGACATACTAGAAAGTCTGTAAGATGTAGTTTCAATTAAGAAATGATG	425
QY	421	AAAAAACTACAGATCAAGATTTGACATCGTTTTCGACATGCTGTTTTCCTCTGGT	480
DB	426	AAAAAAGTACAGAGTCAAGATTTGACATCGTTTTCGACATGCTGTTTTCCTCTGGT	485
QY	481	GAGCTGCTGGCTGCTTAAACATACGTTTGTGTGATACAGTCTCCGCTTTACTCTCTGGC	540
DB	486	GAGCTGCTGGCTGCTTAAACATACGTTTGTGTGATACAGTCTCCGCTTTACTCTCTGGC	545
QY	541	TACACAAATGAAAGGACAGTGGAGACTGATTTTCCCTCTCTTCTTACATACCTATGTT	600
DB	546	TACACATTTTGAAGGACATAGTGGAGATTTATTTTCCCTCTCTTCTTACATACCTATGTT	605
QY	601	ATGTCAAAATTAAGTGTATCAAAAGTCTTTCATGAGAGGTTAAATATGATCTATGTG	660
DB	606	ATGTCAGAATTAAGTGTATCAAAAGTCTTTCATGAGAGGTTAAATATGATCTATGTG	665
QY	661	CTTTATTTTGGCTTTTGGTTTCCAAATGCTGTGATATGAAGAGTGGATCAGTTTTCACAGT	720
DB	666	CTTTATTTTGGCTTTTGGTTTCCAAATGCTGTGATATGAAGAGTGGATCAGTTTTCACAGT	725
QY	721	GAAGTTTGTAGGAGACCCACTACTCTTATTTGAGACAAATGGGAAAGCTGACATATGCTT	780
DB	726	GAAGTTTGTAGGAGACCCACTACTCTTATTTGAGACAAATGGGAAAGCTGACATATGCTT	785
QY	781	ATCGAAACCTCTGGAGTTTTCATTTTCCCTCATCTTCTTACCAACGTTGATTTGTT	840
DB	786	ATTCGAAACCTCTGGAGTTTTCATTTTCCCTCATCTTCTTACCAATGTTGATTTGTT	845

RESULT 7

US-10-783-528-57

; Sequence 57, Application US/10783528

; Publication No. US20040219579A1

; GENERAL INFORMATION:

; APPLICANT: Aziz, Natasha

; APPLICANT: Gish, Kurt

; APPLICANT: Wilson, Keith

; APPLICANT: Zlotnik, Albert

; TITLE OF INVENTION: METHODS OF DIAGNOSIS OF CANCER, COMPOSITIONS AND

; FILE REFERENCE: 05862.0191.NPUS01

; CURRENT APPLICATION NUMBER: US/10/783,528

QY	841	GGAGGATTCACCTGCAAAACCTGCAAAACCCCTACCTAAGGAAATGGAGAGTTTGTACAG	900
DB	846	GGAGGATTCACCTGCAAAACCTGCAAAACCCCTACCTAAGGAAATGGAGAGTTTGTACAG	905
QY	901	AGCTCTGGAGAAATGGT	960
DB	906	AGCTCTGGAGAAATGGT	965
QY	961	GCAGAAAGGGCCCAATGTAAATGCAACAGCCCTTGGCCAAAGATCCACAAAAGGTTCTGTGG	1020
DB	966	GAAGAAAGGGCCCAATGTAAATGCAACAGCCCTTGGCCAAAGATCCACAAAAGGTTCTGTGG	1025
QY	1021	AGATTTGACGGGAATAAACCAGATGCTTATAGTCTCTCAATACTCGGCTGTACAAAGTGGATA	1080
DB	1026	AGATTTGATGGGAATAAACCAGATGCTTATAGTCTCTCAATACTCGGCTGTATAGTGGATA	1085
QY	1081	CCCCAGAAATGACCTTCTAGGTGATCCAAAACAGAGCTTTTATTAATCTCATGTGGAGCC	1140
DB	1086	CCCCAGAAATGACCTTCTAGGTGATCCAAAACAGAGCTTTTATTAATCTCATGTGGAGCC	1145
QY	1141	AATGGCATCTATGAGGCAATCTACCATGGGATCCCTATGGTGGGATTCCTCATTTGTTTTT	1200
DB	1146	AATGGCATCTACAGGCAATCTACCATGGGATCCCTATGGTGGGATTCCTCATTTGTTTTT	1205
QY	1201	GATCAACCTGATAAATTTGCTCATGAAGGCCCAAGGAGCAGCTGTAGATTGGACTTC	1260
DB	1206	GATCAACCTGATAAATTTGCTCATGAAGGCCCAAGGAGCAGCTGTAGATTGGACTTC	1265
QY	1261	AACACAATGTGAGTACAGACCTGTGAATGCACTGAGACAGTAAATTAATGATCTCTTTA	1320
DB	1266	AACACAATGTGAGTACAGACCTGTGAATGCACTGAGACAGTAAATTAATGATCTCTTTA	1325
QY	1321	TATAAAGAGAATATTAATGAAATTTATCAAGATTTCAACATGATCAACAGTAAAGCCCCCTG	1380
DB	1326	TATAAAGAGAATATTAATGAAATTTATCAAGATTTCAACATGATCAACAGTAAAGCCCCCTG	1385
QY	1381	GATCGAGCAGCTCTTCGATTTGAATTTGTATGTCATCCCAAGGAGCCAAACACCTTCGA	1440
DB	1386	GATCGAGCAGCTCTTCGATTTGAATTTGTATGTCATCCCAAGGAGCCAAACACCTTCGG	1445
QY	1441	GTTCGAGCCCATGACCTCAGCTGTTCCAGTACCACTCTTTGGATGTGATTTGGTTCTG	1500
DB	1446	GTTCGAGCCCATGACCTCAGCTGTTCCAGTACCACTCTTTGGATGTGATTTGGTTCTG	1505
QY	1501	CTGGCTCTGTGGCAACTGTGATATTTATCATCAAAAGTTTGTCTGTTTGTCTGTTCTG	1560
DB	1506	CTGGCTCTGTGGCAACTGTGATATTTATCATCAAAAGTTTGTCTGTTTGTCTGTTCTG	1565
QY	1561	AAATTTGCTAGAAAAGGGGAAGAGGAAAAGAGATTTAGTTATGTCTGACATTTGAAGCT	1620
DB	1566	AAATTTGCTAGAAAAGGGGAAGAGGAAAAGAGATTTAGTTATGTCTGACATTTGAAGCT	1625
QY	1621	GGAAAACCATAGATAGGACAACTTCAGTTTATTCAGGCAAGAAAGAAAGATTTGTTAT	1680
DB	1626	GGAAAACCATAGATAGGACAACTTCAGTTTATTCAGGCAAGAAAGAAAGATTTGTTAT	1680
QY	1681	GCAAGATTTCTTTCTCTCTGTCACAAAAGGAAAAAGAAAAA 1722	
DB	1681	GCAAGATTTCTTTCTCTCTGTCACAAAAGGAAAAAGAAAAA 1722	


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; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/962,436
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/962,832
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/964,824
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/09/967,768
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: US/09/968,007
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US/09/969,347
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US/09/969,708
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 8447
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6838
; LENGTH: 1855
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(1855)
; OTHER INFORMATION: n=a,t,g or c
US-10-843-641A-6838

Query Match      86.08; Score 1481.2; DB 22; Length 1855;
Best Local Similarity 91.74; Pred. No. 0;
Matches 1579; Conservative 0; Mismatches 138; Indels 5; Gaps 1;

QY      1  TGCACACGAGTACTCTGAAATGACCTTCAGTTCTTCTGCTGATACATCTCAGTTGTAC 60
DB      6  TGCACACGAGTCTGTGAAATGGACTTCAGTAATTTTGTCTAATACACTGACCTTTGC 65

QY     61  TTTAGCTCTGGAGTTGTGGAAGTGTCTGGTGTGGCCCGCAGAAATACAGCCATTGGATG 120
DB     66  TTTAGCTCTGGGAATTTGTGGAAGTGTCTGGTGTGGCCAGCAGAAATACAGCCATTGGATG 125

QY    121  AATATGAAGACAATCCTGAAGAGCTGTTCAGAGAGTGTTCAGAGAGTGTATGAGTGTACTGGCA 180
DB    126  AATATAAGACAATCCTGGATGAGCTTAATTCAGAGAGTGTATGAGTGTACTGGCA 185

QY    181  TCTTCAGCTTCCATCTCTTTTGTATCCCAATGATGCACTCCACTCTTAAATTTGAAGTTTAT 240
DB    186  TCTTCAGCTTCCATCTCTTTTGTATCCCAACACTCATCCGCTCTTAAATTTGAATTTAT 245

QY    241  CCTACATCTTTAACTAAACTGAATTTGAGAATATCATCATGCAACAGGTAAAGATGG 300
DB    246  CCCACATCTTTAACTAAACTGAGTTGGAGAAATTTTCATCATGCAACAGATTAAGAGATGG 305

QY    301  TCAGACATTCGAAAGATAGCTTTTGGTTATATTTTTCACAGAAACAAGAAATCCTGTGG 360
DB    306  TCAGACCTTCCAAAGATACATTTTGGTTATATTTTTCACAGTACAGGAAATCATGTCA 365

QY    361  GAATTTATATGACATATTTAGAAACTCTCTGTAAGAGATGTAGTTTCAAATAAGAAAGTTATG 420
DB    366  ATATTTGGTGACATTAACATAGAAAGTCTGTGAAGATGTAGTTTCAAATAAGAAATTTATG 425

QY    421  AAAAACTACAGAGTCAAGATTTGACATCGTTTTTTCAGAGATCGTGTTTTCCCTGTGGT 480
DB    426  AAAAAAGTACAGAGTCAAGATTTGACATCGTTTTTTCAGAGATCGTGTTTTCCCTGTGGT 485

QY    481  GAGCTGCTGCTGGCTACTTAAATACATGAGTGTGTGTACAGTCTCCGCTTTACTCTGGC 540
DB    486  GAGCTGCTGCTGAGCTATTTTAAATACATACCCTTTGTGTACAGTCTTCAGCTTCTCTCTGGC 545

QY    541  TACACAAATGAAAGGACAGTGGAGGACTGATTTTCCCTCTCTTACATACACTATTTGTT 600
DB    546  TACACITTTGAAAGGACATAGTGGAGGATTTATTTTCCCTCTCTTACATACACTATTTGTT 605

QY    601  ATGTCAAAATTAAGTATCAAAATGACTTTTCATGGAGGGGTAAATAATATGATCTATGTG 660
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QY    661  CTTTATTTTACACTTTTGGTTCCAAATGCTCTGATATGAAGAACTGGGATCAGTTTACAGT 720
DB    666  CTTTACTTTTACACTTTTGGTTTCGAAATATTTGATGATGAAGAACTGGGATCAGTTTATATG 725
QY    721  GAAATTTTATAGGAAGAGCCCACTACTCTTATTTTGAGACAATGGGAAAGCTGACATATGGCTT 780
DB    726  GAAATTTCTAGGAAGAGCCCACTACTCTTATCTGAGACAATGGGAAAGCTGACATATGGCTT 785
QY    781  ATCGGAAATCTCTGGAGTTTTCATTTTCTCTCATCTCTTATCCAAACGTTGATTTGTT 840
DB    786  ATTTCGAAATCTCTGGAAATTTTTCAGTTTCTCTCATCTCTTATCCAAATGTTGATTTGTT 845
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DB    846  GGAGGACTCCACTGCAAAACCTGCAAAACCTCTGCTTAAGGAAATGGAGGAGTTTGTACAG 905
QY    901  AGCTCTGGAGAAATAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 960
DB    906  AGCTCTGGAGAAATAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 965
QY    961  GCAGAAAGGCCAAATGTAATTTGCAACAGCCCTTGGCCAAAGATCCCAAAAAGTTCTGTGG 1020
DB    966  GAAGAAAGGCCCAACGTAATTTGCAATCAGCCCTGGCCCAAGATCCCAAAAAGTTCTGTGG 1025
QY   1021  AGATTTTGACGGGAATAAACCCAGATGCTTGTAGTGTCTCAATACTCGGCTGTACAGTGCATA 1080
DB   1026  AGATTTTGATGGGAATAAACCCAGATGCTTGTAGTGTCTCAATACTCGGCTGTATAAGTGCATA 1085
QY   1081  CCCAGAAATGACCTTCTAGGTCAATCCAAAACCCAGAGCTTTTATTAACCTCATGTGGAGCC 1140
DB   1086  CCCAGAAATGACCTTCTAGGTCAATCCAAAACCCAGAGCTTTTATTAACCTCATGTGGAGCC 1145
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DB   1146  AATGGCATCTATGAGGCAATCTAATCTGAGTCCCTATGTTGGGCAATCCATTTGTTTGT 1205
QY   1201  GATCAACCTGTATAAATTTGCTCAATGAGGCAAGGCAAGGAGCAGCTGTAGATGGACTTC 1260
DB   1206  GATCAACCTGTATAAATTTGCTCAATGAGGCAAGGCAAGGAGCAGCTGTAGATGGACTTC 1265
QY   1261  AACACAATGTCGAGTACAGACCTGTGAATGCACTGAAGACAGTAAATTAATGATCTCTTTA 1320
DB   1266  AACACAATGTCGAGTACAGACCTGTGAATGCACTGAAGACAGTAAATTAATGATCTCTTTA 1325
QY   1321  TATAAAGAGAAATATTAATGAATTTATCAAGAAATTTCAACATGATCAACAGTAAAGCCCTG 1380
DB   1326  TATAAAGAGAAATTTATGAATTTATCAAGAAATTTCAACATGATCAACAGTAAAGCCCTG 1385
QY   1381  GATCGAGAGCTCTCTGGAATTTGATTTGTCATGCCCAAGAGGAGGCAACACCTTCGA 1440
DB   1386  GATCGAGAGCTCTCTGGAATTTGATTTGTCATGCCCAAGAGGAGGCAACACCTTCGG 1445
QY   1441  GTTGCAGCCCATGACCTCACCTGGTTTCCAGTACCCTCTTTTGGATGTGATTTGGTCTG 1500
DB   1446  GTTGCAGCCCATGACCTCACCTGGTTTCCAGTACCCTCTTTTGGATGTGATTTGGTCTG 1505
QY   1501  CTGGCTGTGTGGCAATCTGTGATATTTATCATCAAAAGTTTGTCTGTGTGTGTGTGTGTGT 1560
DB   1506  CTGGCTGTGTGGCAATCTGTGATATTTATCATCAAAAGTTTGTCTGTGTGTGTGTGTGTGT 1565
QY   1561  AAGTTTGTCTAGAAAGGAGGAAAGGAAAGAGATTTAGTTATGTCTGTGACATTTGAAGCT 1620
DB   1566  AAGTTTGTCTAGAAAGGAGGAAAGGAAAGAGATTTAGTTATGTCTGTGACATTTGAAGCT 1625
QY   1621  GGAAGAACCATAGATAGAGCAACTTTCAGTTTATTTCCAGCAAGAAAGAAAGATTTGTTAT 1680
DB   1626  GGAAGAACCTGATAGTGTAGACTTCTCAGTTTATTTCCAGCAAG- - - - -AAGATTTGAT 1680
QY   1681  GCAGATTTCTTCTTCTGTGTGACAAAAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1722
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Db      1681 GCAAGATTCTTCTCTCTGAGCAAAAAAABAAAAAGAAA 1722

RESULT 9
US-10-843-641A-7205
; Sequence 7205, Application US/10843641A
; Publication No. US20050064454A1
; GENERAL INFORMATION:
; APPLICANT: Avalon Pharmaceuticals, Inc.
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using
; FILE REFERENCE: Signature Gene Sets
; CURRENT APPLICATION NUMBER: US/10/843,641A
; CURRENT FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: US/09/873,367
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US/09/954,531
; PRIOR FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: US/09/954,456
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/962,436
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/962,832
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/964,824
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/09/967,768
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: US/09/968,007
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US/09/969,347
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US/09/969,708
; PRIOR FILING DATE: 2001-10-03
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 847
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7205
; LENGTH: 1855
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(1855)
; OTHER INFORMATION: n=a,t,g or c
US-10-843-641A-7205

Query Match      86.0%; Score 1481.2; DB 22; Length 1855;
Best Local Similarity 91.7%; Pred. No. 0;
Matches 1579; Conservative 0; Mismatches 138; Indels 5; Gaps 1;

Qy      1  TGCACGAGATGACTCTGAAATGGACTTCCTGCTGCTGATACATCTCAGTTGTAC 60
Db      1  TGCACGAGATGACTCTGCTGAAATGGACTTCAGTAAATTTTGTCTAATACAACTGAGCTTTGC 65

Qy      61  TTTAGCTCTGGGAGTTGTGGAAGTCTGGTGGCGCGAGAAATACAGCCATTGGATG 120
Db      61  TTAGCTCTGGGAGTTGTGGAAGTCTGGTGGCGCGAGAAATACAGCCATTGGATG 125

Qy      121  AATATGAAGACAAATCCTGAAAGAGCTTGTTCAGAGAGGTTCATGAGTGACTGTAC 180
Db      121  AATATGAAGACAAATCCTGAGCTTATTCAGAGAGGTTCATGAGTGACTGTACTGGCA 185

Qy      181  TCTTCAGCTTCATTCCTTTTTCATCCCAATGATGATCCACTCTTAAATTTGAAGTTAT 240
Db      181  TCTTCAGCTTCATTCCTTTTTCATCCCAATGATGATCCACTCTTAAATTTGAAGTTAT 245

Qy      241  CCTACATCTTTAACTAAACTGAAATTTGAGAAATATCATCATCAACAGGTAAAGAGATGG 300
Db      241  CCTACATCTTTAACTAAACTGAGTTGGAGAAATTTTCATCATGCAACAGATTAAGAGATGG 305

Qy      301  TCAGACATTCGAAAAGATAGCTTTTGGTTATATTTTTCACAGAAACAAAGAAATCTCTGGG 360
Db      301  TCAGACATTCGAAAAGATAGCTTTTGGTTATATTTTTCACAGAAACAAAGAAATCTCTGGG 365

306  TCAGACCTTCCAAAAGATACATTTTGGTTATATTTTTCACAAGTACAGAAATCATGTCA 365
361  GAAATTAATGACATATTTTAGAAACTTCTGTGTAAGATGATGTTTCAAATAAGAAATTTATG 420
366  ATATTTGGTGACATAAAGTCTGTGTAAGATGATGTTTCAAATAAGAAATTTATG 425
421  AAAAAACTACAAAGAGTCAAGATTTGACATCGTTTGTGACAGATGCTGTTTTCCTCTGCTG 480
426  AAAAAAGTACAAAGAGTCAAGATTTGACATCGTTTGTGACAGATGCTGTTTTCCTCTGCTG 485
481  GAGTCTGCTGGCTGGCTACTTAAACATACGGTTTGTGTACAGTCTCCGCTTTTACTCCTGCG 540
486  GAGTCTGCTGGCTGAGCTATTTAAACATACCTTTGTGTACAGTCTCAGCTTCTCTCCTGCG 545
541  TACACAATTTGAAAGGACAGTGGAGGACTGATTTTCCCTCTCTTCTCAATACCTATTGTT 600
546  TACACTTTTGAAGAGCATAGTGGAGGATTTATTTTCCCTCTCTCTGCTGCTGCTGTTGT 605
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666  CTTTATTTGACTTTTGGTTTCGAAATATTTGACATGAAGAGTGGGATCAGTTTTCAGT 725
721  GAAGTTTGTAGGAAGCCCACTACCTTATTTGAGACAAATGGGAAAGCTGACATATGGCTT 780
726  GAAGTTTGTAGGAAGCCCACTACCTTATTTGAGACAAATGGGAAAGCTGACATATGGCTT 785
781  ATGCGAAATCTCTGGAGTTTTCATTTCTCATCCATCTTACCAAAAGCTTTGATTTTGT 840
786  ATTGCAAACTCTGGAAATTTTCAAGTTTCTCATCCACTTTACCAAAATGTTGATTTGT 845
841  GGAGATTTCCACTGCAAACTGCCAAACCTGCTAAGAGAAATGGAGAGTTTGTACAG 900
846  GGAGACTCCACTGCAAACTGCCAAACCTGCTAAGAGAAATGGAAAGCTTTGTACAG 905
901  AGCTCTGGAGAAATGGTTGTGGTGTGTTTCTCTGGGGTCAATGATTAACATGACA 960
906  AGCTCTGGAGAAATGGTGTGGTGTGTTTCTCTGGGGTCAATGATTAACATGACA 965
961  GCAGAAAGGCGCAATGTAATTCGAACAGCCCTTGCCAAAGATCCCAAAAAGTTCTGTGG 1020
966  GAAGAAAGGCGCAACGTAAATTCATCAGCCCTGGCCAGATCCCAAAAAGTTCTGTGG 1025
1021  AGATTGACGGGAAATAAACAGATGCTTGAAGTCTCAATATCTGGCTGTACAAGTGGATA 1080
1026  AGATTGATGGAAATAAACAGATGCTTGAAGTCTCAATATCTGGCTGTACAAGTGGATA 1085
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1086  CCCAGAAATGACCTCTAGGTTCATCCAAAACCCAGAGCTTTTATAACTCATGTTGAGGCC 1145
1141  AATGCACTCTATGAGGCAATCTACCATGGGATCCCTATGTTGGGCAATTCCTATTTT 1200
1146  AATGCACTCTACAGGCAATCTACCATGGGATCCCTATGTTGGGCAATTCCTATTTT 1205
1201  GATCAACCTGATAACATTTGCTCAATGAAGGCAAGGAGAGCTGTTAGATTTGAGCTTC 1260
1206  GATCAACCTGATAACATTTGCTCAATGAAGGCAAGGAGAGCTGTTAGATTTGAGCTTC 1265
1261  AACCAATGTCGAGTACAGCTGCTGAATGCACATGAGAGAGTAAATTAATGATCCTTTA 1320
1266  AACCAATGTCGAGTACAGCTGCTGAATGCATTTGAAGAGAGTAAATTAATGATCCTTTA 1325
1321  TATAAGAGAGATATTTATGAAATTTATCAAGAAATTTCAACATGATCAACAGTAAAGCCCTG 1380
1326  TATAAGAGAGATATTTATGAAATTTATCAAGAAATTTCAACATGATCAACAGTAAAGCCCTG 1385
1381  GATCGAGAGCTTCTCTGGAATTTGATTTGTCATGCCCAAGAGAGCTTCAACACCTTGA 1440
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QY 1441 GTTGACGCCCATGACCTCACTGTTCCAGTACCACTCTTTGGATGATGATGGTTCTG 1500
D 1446 GTTGACGCCCATGACCTCACTGTTCCAGTACCACTCTTTGGATGATGATGGTTCTG 1505
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D 1506 CTGGCTGTGTGGCACTGTGATATTTATCGTCACAAAATGTTCTGTTTGTCTG 1565
QY 1561 AAGTTTCTAGAAAAGGGAAGGGAAGAGATTAGTTATGCTCGACATTGAGCT 1620
D 1566 AAGTTTCTAGAAAAGGGAAGGGAAGAGATTAGTTATGCTCGACATTGAGCT 1625
QY 1621 GGAACCAGATAGATAGGCAACTTCAGTTTATTCAGCAAGAAAAGAAAGATTGTTAT 1680
D 1626 GGAACCCTGATAGGTGAGACTACTTCAGTTTATTCAGCAAG- - - - -AAGATTGTGAT 1680
QY 1681 GCAGATTTCTTCTCTCTGTGACAAAAGAAAAGAAAAGAAA 1722
D 1681 GCAAGATTTCTTCTCTCTGTGACAAAAGAAAAGAAAAGAAA 1722

RESULT 10
US-10-057-834A-1
; Sequence 1, Application US/10057834A
; Publication No. US2003009960A1
; GENERAL INFORMATION:
; APPLICANT: RATAIN, MARK J.
; APPLICANT: INNOCENTI, FEDERICO
; APPLICANT: DAS, SOMA
; APPLICANT: IYER, LALITHA
; APPLICANT: SAWYER, MICHAEL
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR OPTIMIZING UGT2B7 SUBSTRATE TOXICITY
; FILE REFERENCE: ARCD-358US
; CURRENT APPLICATION NUMBER: US/10/057,834A
; CURRENT FILING DATE: 2002-08-22
; PRIOR APPLICATION NUMBER: UNKNOWN
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 1
; LENGTH: 1991
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (151)..(1740)
US-10-057-834A-1

Query Match 86.0%; Score 1481.2; DB 15; Length 1991;
Best Local Similarity 91.7%; Pred. No. 0;
Matches 1579; Conservative 0; Mismatches 138; Indels 5; Gaps 1;

QY 1 TGACACAGGATGACTCTGAAATGGACTTCAGTTCTTCTGCTGATACATCTCAGTTGTAC 60
D 142 TGACACAGGATGCTGTGAAATGGACTTCAGTAATTTTGTCTAATACAACTGAGCTTTGC 201
QY 61 TTTAGCTCTGGGAGTTCTGGAAGTCTGCTGCTGGCCGACGAATACAGCCATTGGATG 120
D 202 TTTAGCTCTGGGAGTTCTGGAAGTCTGCTGCTGGCCGACGAATACAGCCATTGGATG 261
QY 121 AATATGAAGACAAATCTCTGAAAGAGCTTGTTCAGAGAGGTGATGAGGTGACTGTACTGGCA 180
D 262 AATATAAGACAAATCTCTGATGAGCTTATTCAGAGGTGATGAGGTGACTGTACTGGCA 321
QY 181 TCTTCAGCTTCCATCTTTTGTATCCCAATGATGATGCCATCTCTTAATTTGAAGTTTAT 240
D 322 TCTTCAGCTTCCATCTTTTGTATCCCAATGATGATGCCATCTCTTAATTTGAAGTTTAT 381
QY 241 CCTACATCTTTAACTAAACTGAATTTGAGAATATCATCATGCAACAGGTTAAGAGATGG 300
D 382 CCCACATCTTTAACTAAACTGATTTGGAGAAATTTTCATCATGCAACAGATTAAGAGATGG 441
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QY 301 TCAGACATTCGAAAAGATAGCTTTTGGTTATATTTTTTCAAGAAACAAGAAATCCCTGTGG 360
D 442 TCAGACATTCGAAAAGATAGCTTTTGGTTATATTTTTTCAAGATACAGGAAATCATGTCA 501
QY 361 GAATTATATGACATATTTAGAAACTTCTGTGAAAGATGTAGTTTCAATAAGAAAGTTATG 420
D 502 ATATTTGGTGACATAAATAGAAAAGTTCTGTGAAAGATGTAGTTTCAATAAGAAATTTATG 561
QY 421 AAAAACTACAGAGTCAGAGTTTGAATGCTTTTTCAGATGCTGTTTTCCTGTGGT 480
D 562 AAAAAAGTCAAGAGTCAAGATTGACGTCATTTTTCAGATGCTATTTTTCCTGTAGT 621
QY 481 GAGCTGCTGCTCGCTACTTAAACATACGTTTGTGTACAGTCTTCCCTTTTACTCTCTGGC 540
D 622 GAGCTGCTGCTGCTACTTAAACATACGTTTGTGTACAGTCTTCCCTTTTACTCTCTGGC 681
QY 541 TACAAATTTGAAAGGACAGTGGAGGACTGATTTTCCCTCTTCTTCAATACATCTATTTGTT 600
D 682 TACACATTTTGAAGGACATAGTGGAGGATTTATTTTCCCTCTTCTTCAATACATCTATTTGTT 741
QY 601 ATGTCAAAATTAAGTATCAATGACCTTTCATGGAGGGTAAATAATATGATCTATG 660
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D 802 CTTTACTTTGACTTTTGGTTTCCAAATGTCTGATATGAAGAGTGGGATCAGTTTATACAGT 861
QY 721 GAAGTTTGTAGGAAGACCCACTACTCTTATTTGAGCAATGGGAAAGCTGACATATGCTT 780
D 862 GAAGTTCTAGGAAGACCCACTACTCTTATCTGAGCAATGGGAAAGCTGACATATGCTT 921
QY 781 ATCGAAATCTCTGGAGTTTTCATTTTCTCATCTTCTTACCAACGTTGATTTGTT 840
D 922 ATTGAAATCTCTGGAGTTTTCATTTTCTCATCTTCTTACCAATGTTGATTTGTT 981
QY 841 GGAGGATTTCCACTGCAAAACCTGCAAAACCTTAAAGGAAATGGAGGAGTTTGTACAG 900
D 982 GGAGGATTTCCACTGCAAAACCTGCAAAACCTTAAAGGAAATGGAGGAGTTTGTACAG 1041
QY 901 AGCTCTGGAGAAATGGTGTGTGTGTGTTTCTCTGGGTCAGTGTAACTAATACATGACA 960
D 1042 AGCTCTGGAGAAATGGTGTGTGTGTGTTTCTCTGGGTCAGTGTAACTAATACATGACA 1101
QY 961 GCAGAAAGGCGCAATCTAATTTGCAACAGCCCTTCCAAAGATCCCAAAAAGTTCTGTGG 1020
D 1102 GAAGAAAGGCGCAATCTAATTTGCAACAGCCCTTCCAAAGATCCCAAAAAGTTCTGTGG 1161
QY 1021 AGATTTGACGGGAATTAACACAGATGCTTAAAGTCTCAATACTCGGCTGTACAAGTGGATA 1080
D 1162 AGATTTGATGGGAATTAACACAGATGCTTAAAGTCTCAATACTCGGCTGTACAAGTGGATA 1221
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D 1222 CCCAGAAATGACCTTCTAGGTGATTCAAAACACAGAGCTTTTATACTCATGTGTGGAGCC 1281
QY 1141 AATGGCATCTATGAGGCAATCTACCATGGGATCCCTATGTGGGCAATCCCATTTGTTT 1200
D 1282 AATGGCATCTATGAGGCAATCTACCATGGGATCCCTATGTGGGCAATCCCATTTGTTT 1341
QY 1201 GATCAACCTGATTAACATTTGCTCAATGAAGGCGCAAGGAGGAGCTGTAGATTGGACTTC 1260
D 1342 GATCAACCTGATTAACATTTGCTCAATGAAGGCGCAAGGAGGAGCTGTAGATTGGACTTC 1401
QY 1261 AACCAATGTGAGTACAGACCTGCTGAATGCACTGAAGACAGTAAATTAATGATCTCTTA 1320
D 1402 AACCAATGTGAGTACAGACCTGCTGAATGCACTGAAGACAGTAAATTAATGATCTCTTA 1461
QY 1321 TATAAGAGAAATTAATGAAATTTATCAAGAAATTAATCAACATGATCAACAGGTAAGCCCTG 1380
D 1462 TATAAGAGAAATTAATGAAATTTATCAAGAAATTAATCAACATGATCAACAGGTAAGCCCTG 1521
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Db 1343 TATAAGAGAAATGTTATGAATATCAAGAAATCAACATGATCAACAGGTGAAGCCCTG 1402
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Db 1403 GATCGAGCAGTCTTCGGATTGTAATTTGTCATGCCCCACAAAGAGCTAAACACCTTCGG 1462
Qy 1441 GTTCGAGCCCATGACCTCAGCTGGTCCAGTACACACTCTTTTGGATGATGATGGTTCTG 1500
Db 1463 GTTCGAGCCCATGACCTCAGCTGGTCCAGTACACACTCTTTTGGATGATGATGGTTCTG 1522
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Qy 1621 GGAACCCAGATAGTAGGACAACCTTCAGTTTATTCAGCAAGAAAGAAAGATTTGTTAT 1680
Db 1643 GGAACCCATGATAGGTGAGACTACTTCAGTTTATTCAGCAAG- - - - -AAAGATTTGTAT 1697
Qy 1681 GCAAGATTTCTTCTTTC 1697
Db 1698 GCATGATGTCGATCTTC 1714

RESULT 14
US-10-450-763-5515
; Sequence 5515, Application US/10450763
; Publication No. US200501967541
; GENERAL INFORMATION:
; APPLICANT: Hysseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 5515
; LENGTH: 2802
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIMILAR
; LOCATION: (11)-(1597)
; OTHER INFORMATION: 98% homologous to Homo sapiens UDP-
; OTHER INFORMATION: glucuronosyltransferase, accession number X63359, Smith-Waterman
; OTHER INFORMATION: Score=2757.
US-10-450-763-5515

Query Match 84.4%; Score 1452.8; DB 24; Length 2802;
Best Local Similarity 91.4%; Pred. No. 0;
Matches 1564; Conservative 0; Mismatches 142; Indels 6; Gaps 2;
Qy 1 TGCACACAGGATGACTCTGAAATGACTTTCAGTTCTCTGCTGATACATCTCAGTTGTAC 60
Db 2 TGCACAGGATGGCTCTGAAATGGACTACAG- - -TTCGCTGATACACTCAGTTTAC 58
Qy 61 TTTAGCTCTGGAGTTGTGAAAAGTGTCTGGTGGGCCGACAGAAATACAGCCATTGGATG 120
Db 59 TTTAGCTCTGGAGTTGTGAAAAGTGTCTGGTATGGGCCGACAGAAATACAGCCTTTGGATG 118
Qy 121 AATATGAAGACATCTCGAAGAGCTTGTTCAGAGAGGTATGAGGTGACTGTACTGGCA 180
Db 119 AATATGAAGACATCTCGAAGAGCTTGTTCAGAGAGGTATGAGGTGACTGTACTGGCA 178

Qy 181 TCTTCAGCTTCCATCTCTTTTGATCCCAATGATGATCCACTCTTAAATTTGAAGTTTAT 240
Db 179 TCTTCAGCTTCCATCTCTTTTGATCCCAAGACTCATCCACTCTTAACTTTGAAGTTTAT 238
Qy 241 CCTACATCTTTAACTAAACTGAAATTTGAGAATATCATCATGCAACAGGTTTAAGAGATGG 300
Db 239 CCTACATCTTTAACTAAACTGAAATTTGAGAATATCATCATGCAATTTGGTTAAAGATTC 298
Qy 301 TCAGACATTCGAAAGATAGCTTTTGGTTATATTTTTCACAAAGAACAAAGAAATCTCTGTGG 360
Db 299 TCAGAAATTCAAAGATACATTTTGGTTACCTTTTTCACAAAGAACAAAGAAATCTCTGTGG 358
Qy 361 GAATATATGACATATTTAGAACTTCTGTAAAGATGTAGTTTCAAATAAAGAAATTTATG 420
Db 359 GCAATTAATGACATAATTAGAACTTCTGTAAAGATGTAGTTTCAAATAAAGAAATTTATG 418
Qy 421 AAAAACTACAGAGTCAAGATTTGACATCGTTTTTTCAGATGCTGTTTTTCCCTGTGGT 480
Db 419 AAAAACTACAGAGTCAAGATTTGACATCGTTTTTTCAGATGCTTATTTTACCCTGTGGT 478
Qy 481 GAGCTCTGGCTGGCTACTTAAACATACAGGTTTGTGTACAGTCTCGCTTTTACTTCTGGC 540
Db 479 GAGCTCTGGCTGGCTACTTAAACATACAGGTTTGTGTACAGTCTCGCTTTTACTTCTGGC 538
Qy 541 TACAAATTAAGAGGACAGTGGAGACTGATTTTCCCTCTCTTCTCACAATACCTTATGTT 600
Db 539 TACTCATTTTGAAGGACAGTGGAGGATTTATTTCCCTCTCTTCTTACGTACCTGTGTT 598
Qy 601 ATGTCAAAATTAAGTGAATCAATGACTTTTCATGGAGAGGTTAAATAATATGATCTATG 660
Db 599 ATGTCAAAATTAAGTGAATCAATGACTTTTCATGGAGAGGTTAAATAATATGCTCTATG 658
Qy 661 CTTTATTTTGAATTTTGGTTTCCAAATGCTGTGATGAAGAGTGGGATCAGTTTACAGT 720
Db 659 CTTTATTTTGAATTTTGGTTTCCAAATATTTAATATGAAGAGTGGGATCAGTTTACAGT 718
Qy 721 GAAGTTTGAAGAGACCCACTACTTTTATTTGAGACAAATGGGAAAGCTGACATATGCTT 780
Db 719 GAAGTTTGAAGAGACCCACTACTTTATCTGACAAATGAGGAAAGCTGACATATGCTT 778
Qy 781 ATCGAAACTCTGGAGTTTTCATTTTCTCATCTCATTTTACCAAACGTTGATTTGTT 840
Db 779 ATCGAAACTCTGGAGTTTTCATTTTCTCATCTCATTTTACCAAATGTTGATTTGTT 838
Qy 841 GGAGGATTCACCTGCAAACTCTGCAAACTCTGCAAACTCTGCAAACTCTGCAAACTCTG 900
Db 839 GGAGGATTCACCTGCAAACTCTGCAAACTCTGCAAACTCTGCAAACTCTGCAAACTCTG 898
Qy 901 AGCTCTGGAGAAATGGTGTGTGTTGTTTCTCTGGGTCAGTGAATGAATGAATGAATGA 960
Db 899 AGCTCTGGAGAAATGGTGTGTGTTTCTCTGGGTCAGTGAATGAATGAATGAATGAATGA 958
Qy 961 GCGAAAGGCCCATGTAATTTGCAACAGGCTTCCCAAGATCCCAAGATCCCAAGATCCCA 1019
Db 959 GAAGAAAGGCCCATGTAATTTGCAACAGGCTTCCCAAGATCCCAAGATCCCAAGATCCCA 1018
Qy 1020 - -GAGATTTGACGGGAATAAACCAGATGCTTAAAGTCTCAATCTCGGCTGTACAAGTGG 1077
Db 1019 GAGATTTGATGGGATTAACCCAGATGCTTAAAGTCTCAATCTCGGCTGTACAAGTGG 1078
Qy 1078 ATACCCAGAGATGACCTTCTAGGTCTATCCAAACCCAGAGCTTTTAACTCATGTGGA 1137
Db 1079 ATACCCAGAGATGACCTTCTAGGTCTATCCAAACCCAGAGCTTTTAACTCATGTGGA 1138
Qy 1138 GCAATGGGATCTATGAGGCAATCTACCATGGAATCCCTATGTTGGGCAATTCATTTGTT 1197
Db 1139 GCAATGGGATCTATGAGGCAATCTACCATGGAATCCCTATGTTGGGCAATTCATTTGTT 1198
Qy 1198 TTTGATCAACCTGATAACTTGTCTCATGAGGCAAGGAGGAGGAGGAGGAGGAGGAGGAG 1257
Db 1199 TTTGATCAACCTGATTAATTTGTCTCATGAGGCAAGGAGGAGGAGGAGGAGGAGGAGG 1258
Qy 1258 TTCAACACAAATGTCGAGTACAGACCTGCTGAATGTCATGAGGAGGAGGAGGAGGAGGAG 1317

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